S01_01 (S042258): Biology / Applying Type: MC Key: C
Label: Function lungs-skin-kidneys share

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	33.5	25.5	16.5	33.5	22.5	1.7	0.4	36.1	31.0
Bahrain	701	38.3	14.8	15.3	38.3	29.8	1.8	0.0	41.9	34.7
Botswana	848	40.0	14.3	18.1	40.0	26.9	0.3	0.3	41.0	39.1
Canada	1254	31.5	25.3	17.7	31.5	24.3	0.9	0.3	34.1	28.7
Chile	701	38.6	25.3	8.9	38.6	25.2	2.0	0.0	38.4	38.8
Chinese Taipei	815	57.4	13.3	10.6	57.4	17.8	0.8	0.0	55.6	59.2
Egypt	1124	25.4	18.5	13.8	25.4	39.5	2.5	0.3	25.2	25.7
England	685	24.4	28.5	23.9	24.4	22.3	0.9	0.0	26.6	22.1
Georgia	569	48.3	5.8	10.2	48.3	32.2	3.1	0.5	48.5	48.1
Hong Kong SAR	596	31.4	26.2	20.6	31.4	21.3	0.6	0.0	28.3	34.0
Hungary	692	42.2	10.6	20.3	42.2	25.4	1.5	0.0	45.0	39.8
Iran, Islamic Rep. of	879	52.1	7.5	13.4	52.1	24.6	2.0	0.4	54.4	50.1
Ireland	670	63.9	13.1	12.6	63.9	9.5	0.7	0.1	66.1	61.7
Israel	782	31.4	10.9	25.1	31.4	29.4	2.7	0.5	28.7	33.9
Italy	640	63.5	9.7	8.8	63.5	16.7	1.0	0.4	61.8	65.1
Japan	680	43.3	14.0	22.0	43.3	20.1	0.7	0.0	38.8	48.0
Jordan	1128	27.2	22.8	16.3	27.2	31.7	2.1	0.0	29.9	24.6
Kazakhstan	706	50.8	9.1	10.8	50.8	27.8	1.0	0.6	50.2	51.3
Korea, Rep. of	761	62.6	9.9	15.9	62.6	10.4	1.2	0.0	61.1	63.9
Kuwait	611	28.9	18.2	20.0	28.9	29.5	3.1	0.2	28.1	29.8
Lebanon	534	40.4	13.6	16.3	40.4	23.3	5.8	0.7	37.6	43.9
Lithuania	617	68.8	6.7	11.0	68.8	12.3	1.1	0.0	71.8	65.9
Malaysia	1375	32.6	14.0	24.3	32.6	27.9	1.2	0.0	32.1	33.2
Malta	536	23.8	23.5	19.6	23.8	31.4	1.7	0.0	19.7	27.8
Morocco	1898	15.2	16.8	31.5	15.2	32.5	3.7	0.3	14.4	16.0
New Zealand	1181	22.3	26.7	23.2	22.3	26.7	1.1	0.0	20.0	25.0
Norway	665	33.3	19.6	20.0	33.3	24.6	2.3	0.1	29.0	37.7
Oman	1288	41.4	16.1	15.3	41.4	24.9	2.0	0.1	46.3	36.8
Qatar	760	36.5	18.4	16.5	36.5	26.1	2.1	0.4	38.9	34.0
Russian Federation	683	62.0	8.3	11.9	62.0	15.1	2.6	0.0	58.4	65.6
Saudi Arabia	544	33.1	19.6	22.2	33.1	25.0	0.1	0.0	33.8	32.3
Singapore	879	36.5	13.5	19.7	36.5	29.6	0.6	0.1	34.5	38.4
Slovenia	607	50.7	15.8	12.3	50.7	19.3	1.9	0.0	49.9	51.5
South Africa	1754	19.3	25.8	19.3	19.3	34.1	1.1	0.4	20.5	18.0
Sweden	582	25.9	29.6	20.4	25.9	21.2	2.6	0.2	26.6	25.3
Thailand	926	50.5	5.3	12.4	50.5	30.9	0.9	0.1	52.3	48.5
Turkey	865	66.8	7.7	7.8	66.8	17.3	0.4	0.0	72.6	61.6
United Arab Emirates	2554	33.2	17.4	18.8	33.2	29.4	1.1	0.1	35.1	31.2
United States	1432	27.8	28.4	21.9	27.8	20.2	1.3	0.3	26.2	29.3
International Avg (n=39)	36009	39.9	16.7	17.1	39.9	24.6	1.7	0.2	40.0	39.8
Buenos Aires, Argentina	463	27.0	23.6	13.5	27.0	25.3	9.9	0.6	24.0	29.6
Ontario, Canada	649	29.1	29.1	16.1	29.1	24.0	1.1	0.5	34.3	24.0
Quebec, Canada	564	36.1	18.4	20.6	36.1	24.1	0.8	0.0	33.0	39.8
Norway (8)	689	30.3	24.9	18.5	30.3	23.9	2.1	0.3	29.6	31.0
Abu Dhabi, UAE	685	25.4	19.2	22.7	25.4	31.3	1.3	0.1	28.5	22.2
Dubai, UAE	868	46.8	15.6	11.3	46.8	25.4	0.9	0.0	48.1	45.3
Florida, US	288	29.9	21.8	18.2	29.9	28.5	1.2	0.5	24.5	34.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S01_02 (S042005): Biology / Applying Type: CR 2 Points
Label: Characteristic to classify orgs.

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	41.2	5.4	45.7	46.6	41.2	7.3	0.4	44.1	38.2
Bahrain	701	12.2	20.1	61.9	32.3	12.2	5.7	0.0	15.4	9.0
Botswana	848	13.3	10.9	73.3	24.2	13.3	2.3	0.3	15.0	11.5
Canada	1256	39.6	11.7	42.5	51.3	39.6	5.9	0.3	39.1	40.1
Chile	701	36.2	8.1	39.8	44.3	36.2	16.0	0.0	41.0	31.7
Chinese Taipei	815	61.7	9.4	27.0	71.1	61.7	1.9	0.0	62.8	60.7
Egypt	1124	9.9	9.3	63.8	19.2	9.9	16.6	0.4	11.4	8.2
England	685	48.2	4.8	42.0	53.0	48.2	5.0	0.0	54.0	42.3
Georgia	569	11.6	5.1	59.9	16.7	11.6	22.9	0.5	13.5	9.8
Hong Kong SAR	596	39.7	5.7	50.8	45.4	39.7	3.8	0.0	45.8	34.3
Hungary	692	57.4	5.2	30.9	62.6	57.4	6.5	0.0	64.2	51.3
Iran, Islamic Rep. of	879	54.7	10.1	27.5	64.8	54.7	7.3	0.5	60.6	49.5
Ireland	670	34.1	6.3	55.3	40.4	34.1	4.1	0.1	39.4	28.7
Israel	782	47.4	8.9	34.0	56.3	47.4	8.9	0.8	50.6	44.5
Italy	639	43.8	9.8	38.5	53.6	43.8	7.5	0.4	46.9	40.9
Japan	680	62.3	12.5	21.7	74.8	62.3	3.5	0.0	62.8	61.8
Jordan	1128	17.2	6.7	70.2	23.9	17.2	5.8	0.1	20.8	13.7
Kazakhstan	706	23.1	35.9	33.3	59.0	23.1	7.2	0.6	23.0	23.3
Korea, Rep. of	761	64.9	8.3	22.8	73.2	64.9	4.0	0.0	70.2	60.3
Kuwait	611	10.4	16.2	63.9	26.6	10.4	9.3	0.2	11.5	9.3
Lebanon	543	14.5	17.6	53.7	32.1	14.5	13.5	0.7	15.2	13.4
Lithuania	617	36.9	7.6	45.9	44.5	36.9	9.6	0.0	34.3	39.4
Malaysia	1376	19.7	6.8	67.6	26.5	19.7	5.9	0.0	21.6	17.6
Malta	536	33.8	3.0	57.9	36.7	33.8	5.4	0.0	36.2	31.3
Morocco	1898	9.9	3.9	77.6	13.7	9.9	8.4	0.3	10.2	9.5
New Zealand	1181	35.0	3.9	54.9	38.9	35.0	6.3	0.0	38.5	30.8
Norway	665	31.1	5.7	55.7	36.7	31.1	7.5	0.1	32.9	29.2
Oman	1287	30.7	12.3	52.0	43.0	30.7	4.8	0.1	37.2	24.6
Qatar	760	24.6	7.1	60.5	31.7	24.6	7.1	0.7	27.6	21.4
Russian Federation	683	32.4	18.0	35.8	50.4	32.4	13.8	0.0	31.8	33.0
Saudi Arabia	544	17.5	7.7	65.9	25.2	17.5	8.9	0.0	21.6	13.3
Singapore	879	50.1	9.3	37.4	59.4	50.1	3.0	0.1	51.1	49.2
Slovenia	607	48.5	11.9	34.1	60.4	48.5	5.5	0.0	53.2	43.5
South Africa	1754	7.1	10.6	77.6	17.7	7.1	4.3	0.4	8.0	6.2
Sweden	582	36.9	10.3	42.3	47.2	36.9	10.3	0.2	44.9	29.0
Thailand	926	34.5	5.9	49.3	40.4	34.5	10.2	0.1	35.0	33.9
Turkey	865	36.3	4.8	53.0	41.0	36.3	6.0	0.0	44.5	29.0
United Arab Emirates	2555	28.3	3.7	64.0	32.0	28.3	3.9	0.1	32.6	24.0
United States	1432	46.3	8.5	42.5	54.8	46.3	2.4	0.3	49.0	43.6
International Avg (n=39)	36020	33.4	9.5	49.5	42.9	33.4	7.4	0.2	36.3	30.5
Buenos Aires, Argentina	474	19.0	7.0	46.2	25.9	19.0	27.3	0.6	18.3	19.5
Ontario, Canada	650	43.8	13.4	37.9	57.2	43.8	4.3	0.5	44.7	42.9
Quebec, Canada	565	31.5	7.8	53.1	39.3	31.5	7.5	0.1	26.2	37.9
Norway (8)	689	32.6	12.9	44.1	45.5	32.6	10.1	0.3	32.5	32.6
Abu Dhabi, UAE	685	24.8	2.6	68.6	27.4	24.8	3.8	0.1	31.7	17.7
Dubai, UAE	869	35.2	4.2	57.5	39.4	35.2	3.1	0.0	34.9	35.6
Florida, US	288	40.7	5.1	48.8	45.8	40.7	4.9	0.5	40.7	40.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_03 (S042016): Biology / Knowing Type: MC Key: A
Label: Organelle that produces energy

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	27.3	27.3	42.0	19.4	9.3	1.5	0.4	28.6	25.9
Bahrain	701	33.3	33.3	39.9	17.0	7.6	2.1	0.0	36.2	30.4
Botswana	848	19.4	19.4	42.4	20.5	15.4	1.8	0.5	22.3	16.4
Canada	1254	38.5	38.5	36.6	14.0	9.7	0.8	0.4	38.0	39.0
Chile	701	32.6	32.6	36.4	23.1	4.4	3.5	0.0	30.0	35.0
Chinese Taipei	815	57.0	57.0	31.6	9.1	1.9	0.4	0.0	54.4	59.6
Egypt	1124	16.5	16.5	47.4	24.6	9.1	2.0	0.4	17.7	15.2
England	685	22.4	22.4	38.4	25.7	11.9	1.7	0.0	25.2	19.5
Georgia	569	34.3	34.3	27.9	23.2	9.0	4.6	1.0	30.7	37.9
Hong Kong SAR	596	12.5	12.5	58.9	23.4	4.4	0.8	0.0	11.7	13.1
Hungary	692	18.4	18.4	69.6	9.6	1.7	0.9	0.0	17.2	19.4
Iran, Islamic Rep. of	879	33.2	33.2	29.2	23.9	10.4	2.8	0.5	37.2	29.5
Ireland	670	17.8	17.8	52.6	17.5	11.1	0.8	0.1	16.3	19.3
Israel	782	46.2	46.2	28.6	16.1	4.8	3.5	0.8	49.8	43.1
Italy	640	31.2	31.2	43.3	16.8	6.1	2.2	0.4	35.2	27.4
Japan	680	20.4	20.4	43.9	28.5	6.4	0.8	0.0	18.2	22.7
Jordan	1128	15.1	15.1	56.7	20.0	6.0	1.9	0.3	16.0	14.2
Kazakhstan	705	57.4	57.4	21.0	13.5	5.0	2.5	0.6	60.5	54.5
Korea, Rep. of	761	54.6	54.6	28.9	13.3	2.9	0.4	0.0	53.0	55.9
Kuwait	611	24.9	24.9	48.7	14.6	6.2	5.4	0.2	26.8	22.9
Lebanon	539	15.4	15.4	53.1	16.5	5.4	8.9	0.7	15.2	15.8
Lithuania	617	34.1	34.1	34.3	18.7	11.4	1.5	0.0	38.5	29.7
Malaysia	1376	12.9	12.9	41.3	30.4	14.1	1.2	0.1	14.5	11.1
Malta	536	31.6	31.6	39.1	16.1	9.1	4.2	0.0	33.8	29.4
Morocco	1897	4.8	4.8	59.3	24.1	7.9	3.5	0.3	5.1	4.6
New Zealand	1181	15.8	15.8	47.5	24.2	10.6	2.0	0.0	15.1	16.6
Norway	665	22.3	22.3	58.6	14.1	3.4	1.5	0.1	18.8	25.8
Oman	1288	38.7	38.7	30.5	17.9	10.5	2.3	0.1	47.6	30.1
Qatar	760	26.2	26.2	46.7	13.9	10.4	1.9	0.9	28.2	24.0
Russian Federation	683	45.8	45.8	29.2	16.2	6.8	2.1	0.0	48.9	42.8
Saudi Arabia	542	26.7	26.7	51.6	8.6	11.7	1.5	0.0	29.9	23.3
Singapore	879	49.9	49.9	24.3	14.5	10.9	0.3	0.1	51.5	48.4
Slovenia	607	48.8	48.8	29.9	12.6	7.1	1.6	0.0	49.9	47.6
South Africa	1754	21.9	21.9	45.2	17.5	13.2	1.3	0.8	23.4	20.4
Sweden	582	29.1	29.1	40.5	23.2	4.4	2.7	0.2	30.8	27.3
Thailand	926	16.0	16.0	37.2	32.2	10.7	3.8	0.1	16.8	15.1
Turkey	865	51.9	51.9	21.8	18.1	7.0	1.2	0.0	56.7	47.7
United Arab Emirates	2555	33.0	33.0	42.3	15.1	8.0	1.5	0.1	34.2	31.8
United States	1432	44.8	44.8	34.9	13.2	5.8	1.0	0.3	45.4	44.3
International Avg (n=39)	36012	30.3	30.3	40.8	18.5	8.0	2.2	0.2	31.5	29.1
Buenos Aires, Argentina	457	17.3	17.3	38.6	20.6	7.0	15.5	1.0	19.6	14.9
Ontario, Canada	648	41.6	41.6	31.9	15.2	9.8	0.9	0.6	42.6	40.7
Quebec, Canada	565	30.6	30.6	48.9	10.2	9.5	0.8	0.1	26.1	35.9
Norway (8)	689	32.0	32.0	52.7	9.3	3.4	2.3	0.3	31.0	33.0
Abu Dhabi, UAE	685	27.1	27.1	44.4	17.6	8.9	1.9	0.1	32.0	21.9
Dubai, UAE	869	46.3	46.3	31.9	13.0	8.0	0.7	0.0	42.2	50.8
Florida, US	288	42.4	42.4	34.1	16.4	5.7	0.9	0.5	42.9	42.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S01_04A (S042300A): Biology / Applying Type: CR 1 Point
Label: O2-CO2 release-removal: animals

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	47.1	45.9	47.1	6.6	0.4	44.9	49.3
Bahrain	701	49.2	47.0	49.2	3.7	0.0	56.3	42.3
Botswana	848	27.6	67.0	27.6	4.8	0.7	29.4	25.6
Canada	1256	48.5	46.7	48.5	4.3	0.5	46.4	50.8
Chile	701	31.5	59.2	31.5	9.4	0.0	25.9	36.6
Chinese Taipei	815	73.9	25.2	73.9	0.9	0.0	70.9	76.9
Egypt	1124	31.0	61.5	31.0	7.1	0.4	33.7	28.1
England	685	49.1	47.0	49.1	3.7	0.1	48.4	49.8
Georgia	569	44.0	40.4	44.0	14.6	1.0	43.5	44.5
Hong Kong SAR	596	70.3	27.9	70.3	1.8	0.0	69.9	70.7
Hungary	692	66.8	30.8	66.8	2.3	0.0	61.4	71.7
Iran, Islamic Rep. of	879	41.5	51.8	41.5	6.1	0.6	42.0	41.1
Ireland	670	56.4	40.3	56.4	3.1	0.1	54.8	58.1
Israel	782	55.0	40.1	55.0	4.0	0.9	54.0	55.9
Italy	640	47.7	48.4	47.7	3.4	0.5	47.5	48.0
Japan	680	85.0	12.7	85.0	2.3	0.0	86.4	83.6
Jordan	1128	41.0	54.6	41.0	4.0	0.3	43.5	38.7
Kazakhstan	705	59.8	35.4	59.8	4.3	0.6	55.6	63.6
Korea, Rep. of	761	65.3	32.6	65.3	2.1	0.0	63.9	66.6
Kuwait	611	35.6	54.0	35.6	10.1	0.2	36.4	34.8
Lebanon	545	42.6	44.3	42.6	12.4	0.7	44.1	40.5
Lithuania	617	50.8	44.9	50.8	4.2	0.0	52.2	49.5
Malaysia	1376	45.7	50.3	45.7	3.8	0.2	47.1	44.1
Malta	536	41.7	54.4	41.7	3.8	0.0	40.4	43.1
Morocco	1897	31.8	65.0	31.8	2.9	0.3	29.4	34.2
New Zealand	1181	45.6	50.3	45.6	3.8	0.2	44.1	47.4
Norway	665	38.8	52.3	38.8	8.9	0.1	34.4	43.2
Oman	1287	41.6	53.4	41.6	4.8	0.2	47.7	35.6
Qatar	760	45.9	47.8	45.9	5.4	0.9	46.1	45.7
Russian Federation	683	70.3	23.1	70.3	6.6	0.0	70.8	69.9
Saudi Arabia	544	25.0	69.0	25.0	5.7	0.4	27.9	21.9
Singapore	879	82.5	17.0	82.5	0.4	0.1	86.3	78.8
Slovenia	607	75.8	22.9	75.8	1.3	0.0	76.3	75.3
South Africa	1754	23.8	72.2	23.8	3.1	1.0	23.5	24.0
Sweden	582	51.9	43.3	51.9	4.5	0.2	52.4	51.3
Thailand	926	34.0	60.1	34.0	5.8	0.1	35.8	32.1
Turkey	865	53.0	45.0	53.0	2.0	0.0	52.2	53.8
United Arab Emirates	2555	48.4	48.0	48.4	3.5	0.1	50.4	46.3
United States	1432	50.7	46.8	50.7	2.2	0.4	45.9	55.5
International Avg (n=39)	36021	49.4	45.6	49.4	4.7	0.3	49.3	49.5
Buenos Aires, Argentina	474	23.4	55.2	23.4	20.4	1.0	23.1	23.5
Ontario, Canada	650	48.6	46.1	48.6	4.6	0.7	49.9	47.3
Quebec, Canada	565	46.9	50.6	46.9	2.4	0.1	39.5	55.8
Norway (8)	689	32.2	57.4	32.2	9.7	0.7	30.3	34.1
Abu Dhabi, UAE	685	38.8	57.8	38.8	3.3	0.1	41.1	36.3
Dubai, UAE	869	63.7	32.9	63.7	3.4	0.0	64.7	62.6
Florida, US	288	44.6	52.2	44.6	2.7	0.5	37.0	50.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_04B (S042300B): Biology / Applying Type: CR 1 Point
Label: O2-CO2 release-removal: plants

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	11.5	82.2	11.5	5.7	0.6	12.5	10.5
Bahrain	701	17.6	78.5	17.6	3.8	0.1	17.4	17.7
Botswana	848	16.5	77.6	16.5	4.9	1.0	19.3	13.5
Canada	1256	8.9	86.2	8.9	4.2	0.7	9.9	7.8
Chile	701	8.0	82.9	8.0	9.0	0.0	8.9	7.3
Chinese Taipei	815	34.8	64.6	34.8	0.6	0.0	32.5	37.1
Egypt	1124	22.5	69.2	22.5	7.8	0.5	23.1	21.9
England	685	13.4	83.1	13.4	3.3	0.2	13.4	13.3
Georgia	569	11.2	71.1	11.2	16.7	1.0	13.8	8.6
Hong Kong SAR	596	47.4	51.0	47.4	1.6	0.0	43.7	50.6
Hungary	692	10.1	87.4	10.1	2.5	0.0	11.6	8.7
Iran, Islamic Rep. of	879	8.2	84.6	8.2	6.3	0.9	9.4	7.1
Ireland	670	11.0	86.6	11.0	2.2	0.1	13.3	8.7
Israel	782	16.4	78.5	16.4	3.8	1.2	16.8	16.1
Italy	640	16.3	80.0	16.3	3.2	0.5	16.3	16.3
Japan	680	54.4	43.4	54.4	2.2	0.0	50.6	58.5
Jordan	1128	16.3	79.2	16.3	3.9	0.6	19.0	13.8
Kazakhstan	705	38.3	56.9	38.3	4.2	0.6	37.4	39.1
Korea, Rep. of	761	22.6	75.9	22.6	1.5	0.0	18.5	26.2
Kuwait	611	13.2	77.0	13.2	9.6	0.2	13.1	13.2
Lebanon	545	17.2	69.6	17.2	12.6	0.7	16.5	18.0
Lithuania	617	16.2	79.9	16.2	3.9	0.0	18.8	13.8
Malaysia	1376	15.4	80.7	15.4	3.7	0.2	17.4	13.1
Malta	536	11.8	84.2	11.8	4.0	0.0	13.4	10.1
Morocco	1897	9.6	87.2	9.6	2.7	0.6	10.6	8.6
New Zealand	1181	8.4	87.7	8.4	3.7	0.2	9.6	7.0
Norway	665	12.6	79.5	12.6	7.8	0.1	12.3	12.9
Oman	1288	22.2	73.7	22.2	3.6	0.4	26.6	18.1
Qatar	760	18.6	75.3	18.6	5.1	0.9	20.0	17.1
Russian Federation	683	26.3	67.2	26.3	6.3	0.2	26.0	26.6
Saudi Arabia	544	9.6	84.4	9.6	5.5	0.5	10.1	9.1
Singapore	879	67.4	32.3	67.4	0.2	0.1	69.2	65.6
Slovenia	607	21.0	78.1	21.0	1.0	0.0	22.4	19.4
South Africa	1754	15.6	79.8	15.6	3.1	1.4	16.6	14.4
Sweden	582	10.5	85.1	10.5	4.1	0.3	13.3	7.7
Thailand	926	13.1	80.9	13.1	5.9	0.1	15.7	10.2
Turkey	865	23.2	74.4	23.2	2.2	0.2	27.5	19.4
United Arab Emirates	2555	20.9	75.5	20.9	3.4	0.2	22.8	19.0
United States	1432	11.7	85.8	11.7	2.1	0.4	13.6	9.8
International Avg (n=39)	36022	19.2	75.8	19.2	4.6	0.4	20.1	18.4
Buenos Aires, Argentina	474	5.1	73.1	5.1	19.9	1.9	3.3	7.0
Ontario, Canada	650	8.1	86.7	8.1	4.5	0.7	11.5	4.7
Quebec, Canada	565	11.4	85.9	11.4	1.9	0.8	8.1	15.3
Norway (8)	689	11.9	78.3	11.9	9.1	0.7	12.2	11.7
Abu Dhabi, UAE	685	18.1	77.8	18.1	4.0	0.1	22.9	13.2
Dubai, UAE	869	28.5	68.2	28.5	3.2	0.1	27.3	29.8
Florida, US	288	8.1	88.7	8.1	2.7	0.5	9.6	6.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_04C (S042300C): Biology / Applying Type: CR 1 Point
Label: O2-CO2 release-removal: photosyn.

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	47.8	45.1	47.8	6.5	0.6	47.9	47.8
Bahrain	701	46.4	49.1	46.4	4.4	0.1	54.9	38.0
Botswana	848	32.6	61.7	32.6	4.4	1.3	35.6	29.3
Canada	1256	50.8	44.6	50.8	3.9	0.7	49.6	52.0
Chile	701	34.2	56.0	34.2	9.8	0.0	29.3	38.8
Chinese Taipei	815	72.2	27.1	72.2	0.7	0.0	69.5	74.8
Egypt	1124	29.8	61.8	29.8	7.9	0.5	32.2	27.2
England	685	51.1	45.0	51.1	3.7	0.2	49.5	52.6
Georgia	569	32.1	49.5	32.1	17.4	1.0	30.1	34.1
Hong Kong SAR	596	70.1	28.4	70.1	1.4	0.0	67.4	72.5
Hungary	692	52.9	42.8	52.9	4.2	0.0	49.1	56.4
Iran, Islamic Rep. of	879	30.1	60.3	30.1	8.7	0.9	30.8	29.5
Ireland	670	57.2	39.2	57.2	3.4	0.1	58.8	55.6
Israel	782	50.4	43.8	50.4	4.6	1.2	46.9	53.5
Italy	640	46.1	49.8	46.1	3.6	0.5	47.1	45.2
Japan	680	76.0	21.0	76.0	3.0	0.0	77.2	74.6
Jordan	1128	37.8	57.1	37.8	4.5	0.6	41.5	34.4
Kazakhstan	705	58.1	35.5	58.1	5.7	0.6	55.4	60.8
Korea, Rep. of	761	57.9	39.1	57.9	3.0	0.0	54.2	61.2
Kuwait	611	29.0	59.2	29.0	11.6	0.2	30.6	27.2
Lebanon	545	35.9	48.5	35.9	14.9	0.7	38.5	32.3
Lithuania	617	48.3	46.4	48.3	5.3	0.0	51.0	45.7
Malaysia	1376	47.5	47.8	47.5	4.4	0.2	47.7	47.4
Malta	536	40.8	54.2	40.8	4.9	0.0	37.6	44.1
Morocco	1897	23.3	71.0	23.3	5.1	0.6	23.2	23.4
New Zealand	1181	48.3	47.7	48.3	3.8	0.2	48.8	47.6
Norway	665	49.2	43.3	49.2	7.5	0.1	46.9	51.4
Oman	1286	41.8	52.3	41.8	5.5	0.4	48.6	35.3
Qatar	760	45.8	47.4	45.8	5.8	0.9	47.7	43.8
Russian Federation	683	61.0	30.8	61.0	8.0	0.3	62.8	59.2
Saudi Arabia	544	22.5	70.2	22.5	6.9	0.5	24.5	20.5
Singapore	879	80.8	18.5	80.8	0.5	0.1	83.3	78.5
Slovenia	607	71.4	27.2	71.4	1.5	0.0	71.5	71.1
South Africa	1754	29.3	66.2	29.3	3.0	1.5	28.7	29.9
Sweden	582	55.5	41.0	55.5	3.3	0.3	58.1	52.8
Thailand	926	32.5	61.5	32.5	5.9	0.1	38.2	26.3
Turkey	865	48.2	49.5	48.2	2.1	0.2	49.3	47.3
United Arab Emirates	2555	48.6	47.5	48.6	3.7	0.2	52.1	44.9
United States	1432	53.5	44.0	53.5	2.1	0.4	52.9	54.1
International Avg (n=39)	36020	47.4	47.0	47.4	5.3	0.4	47.9	46.7
Buenos Aires, Argentina	473	23.3	53.7	23.3	21.0	1.9	24.0	22.3
Ontario, Canada	650	52.8	42.2	52.8	4.2	0.7	54.6	51.0
Quebec, Canada	565	46.1	51.1	46.1	1.9	0.8	39.4	54.2
Norway (8)	689	42.3	47.9	42.3	9.1	0.7	40.8	43.7
Abu Dhabi, UAE	685	42.6	53.4	42.6	3.9	0.1	51.0	33.9
Dubai, UAE	869	59.4	37.1	59.4	3.4	0.1	58.5	60.4
Florida, US	288	47.6	49.2	47.6	2.7	0.5	44.8	49.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_05 (S042319): Biology / Reasoning Type: CR 1 Point
Label: Designing plant growth experiment

COUNTRY	N	10 %	11 %	12 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	5.3	1.9	23.0	53.3	30.2	15.9	0.6	33.5	26.8
Bahrain	701	9.0	5.9	15.0	52.8	30.0	17.1	0.1	39.6	20.5
Botswana	848	1.5	0.5	1.7	83.2	3.7	11.7	1.3	4.1	3.3
Canada	1256	2.3	1.7	29.9	50.6	33.9	14.8	0.7	36.9	30.8
Chile	701	2.0	0.8	13.9	39.3	16.8	43.9	0.0	16.0	17.6
Chinese Taipei	815	9.3	1.9	38.6	35.6	49.9	14.4	0.0	53.1	46.8
Egypt	1124	2.9	0.3	10.3	57.4	13.5	28.6	0.5	14.8	12.0
England	685	16.3	9.6	25.2	29.6	51.1	19.1	0.2	57.6	44.6
Georgia	569	0.4	0.5	4.6	54.1	5.6	39.4	1.0	6.6	4.5
Hong Kong SAR	596	18.8	2.6	29.3	35.7	50.7	13.6	0.0	54.5	47.3
Hungary	692	3.0	0.3	23.1	50.9	26.4	22.8	0.0	25.0	27.6
Iran, Islamic Rep. of	879	4.9	1.0	10.0	63.2	15.8	20.1	0.9	18.9	13.1
Ireland	670	6.8	0.9	34.1	42.5	41.7	15.6	0.1	43.6	39.8
Israel	782	20.3	4.2	17.2	40.4	41.6	16.8	1.2	46.3	37.4
Italy	639	1.0	0.2	13.0	51.1	14.2	34.2	0.5	16.6	11.9
Japan	680	10.1	1.4	49.6	26.1	61.1	12.8	0.0	66.1	55.7
Jordan	1128	1.8	0.9	5.5	73.2	8.2	18.0	0.6	11.3	5.3
Kazakhstan	706	32.2	0.4	2.2	49.8	34.8	14.8	0.6	38.1	31.8
Korea, Rep. of	761	16.0	1.1	27.8	46.1	45.0	9.0	0.0	49.2	41.2
Kuwait	611	5.6	1.3	3.5	56.8	10.4	32.6	0.2	11.0	9.7
Lebanon	545	2.4	0.2	6.1	50.3	8.7	40.4	0.7	9.9	7.1
Lithuania	617	2.0	0.3	43.0	43.4	45.3	11.3	0.0	46.3	44.3
Malaysia	1376	3.1	1.4	8.3	62.2	12.8	24.5	0.5	15.4	9.9
Malta	536	5.7	1.1	9.7	56.0	16.6	27.5	0.0	15.5	17.6
Morocco	1897	0.0	0.1	3.4	61.0	3.5	34.9	0.6	3.7	3.2
New Zealand	1181	10.8	2.3	22.9	43.0	36.0	20.8	0.2	42.2	28.7
Norway	665	2.1	1.4	17.7	55.5	21.2	23.3	0.1	24.2	18.2
Oman	1287	3.3	2.3	5.8	72.5	11.4	15.3	0.8	15.9	7.2
Qatar	760	7.2	2.5	13.7	50.8	23.5	24.8	1.0	26.1	20.6
Russian Federation	683	2.4	2.3	23.6	42.6	28.4	28.7	0.3	30.9	25.8
Saudi Arabia	545	3.4	1.7	7.4	59.3	12.5	27.7	0.5	15.4	9.5
Singapore	879	33.7	9.6	20.3	30.1	63.6	6.3	0.1	70.3	57.1
Slovenia	607	18.4	17.6	4.8	39.1	40.8	20.2	0.0	46.8	34.3
South Africa	1754	0.9	0.9	1.2	72.4	3.0	23.1	1.5	3.5	2.4
Sweden	582	8.7	0.9	25.2	37.8	34.7	27.2	0.3	44.4	25.0
Thailand	926	4.4	0.5	12.1	56.4	17.0	26.5	0.1	17.7	16.2
Turkey	865	7.1	2.5	13.0	66.2	22.5	11.1	0.2	27.0	18.6
United Arab Emirates	2555	3.3	2.0	10.0	67.9	15.3	16.6	0.2	16.9	13.8
United States	1432	5.9	3.2	28.9	54.8	38.1	6.7	0.4	41.2	35.0
International Avg (n=39)	36022	7.6	2.3	16.8	51.6	26.6	21.3	0.4	29.6	23.7
Buenos Aires, Argentina	473	4.5	1.5	0.6	32.2	6.5	59.1	2.2	6.3	6.4
Ontario, Canada	650	3.2	2.5	26.8	51.0	32.5	15.7	0.7	35.0	30.1
Quebec, Canada	565	1.1	0.5	34.8	51.4	36.5	11.3	0.8	39.1	33.3
Norway (8)	689	1.0	1.1	14.7	56.0	16.8	26.5	0.7	20.6	13.1
Abu Dhabi, UAE	685	2.0	1.6	8.9	70.8	12.5	16.5	0.1	16.0	8.9
Dubai, UAE	869	6.9	4.2	14.3	61.4	25.4	13.1	0.1	23.3	27.8
Florida, US	288	5.0	4.9	23.8	55.3	33.7	10.5	0.5	37.5	30.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_06 (S042068): Chemistry / Knowing Type: MC Key: A
Label: Which one is a mixture

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	22.2	22.2	30.7	23.0	21.2	2.2	0.6	24.5	19.9
Bahrain	701	34.6	34.6	22.0	19.7	21.6	2.0	0.1	40.1	29.2
Botswana	847	41.2	41.2	20.8	19.0	16.5	1.1	1.3	40.7	41.8
Canada	1245	25.0	25.0	24.4	25.9	23.1	0.7	0.9	24.6	25.4
Chile	701	11.8	11.8	30.1	31.9	24.2	1.5	0.4	11.6	12.0
Chinese Taipei	815	70.9	70.9	8.0	13.7	6.8	0.6	0.0	70.9	70.9
Egypt	1124	37.1	37.1	26.8	14.3	20.3	0.9	0.6	39.0	35.1
England	685	37.1	37.1	23.9	14.9	21.3	2.4	0.3	42.7	31.5
Georgia	569	51.3	51.3	12.1	14.9	19.5	1.3	1.0	52.3	50.3
Hong Kong SAR	596	49.1	49.1	12.2	24.2	14.3	0.2	0.0	50.7	47.6
Hungary	692	57.1	57.1	14.6	11.6	13.7	3.0	0.0	55.9	58.3
Iran, Islamic Rep. of	879	41.5	41.5	16.5	22.1	17.8	0.8	1.3	43.0	40.1
Ireland	670	39.6	39.6	24.7	18.5	15.0	2.0	0.1	42.5	36.8
Israel	782	56.2	56.2	16.9	14.3	9.8	1.5	1.3	59.1	53.6
Italy	640	24.1	24.1	27.4	19.5	27.7	0.7	0.5	26.3	22.0
Japan	680	43.5	43.5	20.7	14.3	11.4	10.1	0.0	42.1	45.0
Jordan	1128	31.9	31.9	22.3	19.5	23.6	2.1	0.6	34.7	29.3
Kazakhstan	706	68.3	68.3	11.5	9.3	9.5	0.6	0.8	66.5	70.0
Korea, Rep. of	761	45.4	45.4	20.2	25.4	7.8	1.2	0.0	50.8	40.6
Kuwait	611	25.6	25.6	30.0	19.1	22.6	2.5	0.2	25.1	26.1
Lebanon	480	35.3	35.3	31.6	19.7	10.6	2.0	0.7	38.7	30.7
Lithuania	617	43.2	43.2	23.4	15.2	16.1	2.1	0.0	46.5	40.0
Malaysia	1376	35.0	35.0	20.1	16.9	27.0	0.3	0.6	39.4	30.2
Malta	536	37.0	37.0	23.0	17.7	20.9	1.5	0.0	34.4	39.6
Morocco	1898	45.7	45.7	22.7	10.7	16.5	3.8	0.6	49.4	42.4
New Zealand	1181	29.8	29.8	26.1	23.3	17.8	2.8	0.3	32.5	26.6
Norway	665	22.6	22.6	31.8	25.5	16.3	3.7	0.1	23.6	21.6
Oman	1288	46.7	46.7	18.6	17.1	15.4	1.3	0.9	51.2	42.4
Qatar	760	40.1	40.1	26.8	13.1	17.6	1.2	1.2	38.5	41.8
Russian Federation	683	53.8	53.8	21.0	12.9	10.3	1.6	0.4	52.6	54.9
Saudi Arabia	544	23.5	23.5	31.6	19.9	24.2	0.2	0.5	26.5	20.4
Singapore	879	59.5	59.5	15.8	10.6	13.3	0.6	0.2	62.8	56.3
Slovenia	607	74.2	74.2	10.5	5.6	2.9	6.8	0.0	78.6	69.6
South Africa	1754	14.8	14.8	26.6	27.2	27.7	1.6	2.1	12.7	17.1
Sweden	582	22.4	22.4	36.4	24.7	11.8	4.2	0.5	24.9	19.8
Thailand	926	26.6	26.6	17.8	38.3	16.2	0.8	0.2	27.5	25.7
Turkey	865	32.1	32.1	31.9	18.9	16.5	0.4	0.2	35.7	28.9
United Arab Emirates	2555	38.1	38.1	27.5	17.1	14.8	2.3	0.2	41.0	35.2
United States	1432	23.6	23.6	33.1	20.7	21.1	0.9	0.6	24.6	22.7
International Avg (n=39)	35947	38.9	38.9	22.9	18.7	17.0	1.9	0.5	40.6	37.2
Buenos Aires, Argentina	468	13.8	13.8	15.2	29.6	32.1	7.4	1.8	15.4	12.2
Ontario, Canada	645	24.0	24.0	23.8	26.4	23.8	1.0	1.0	25.8	22.2
Quebec, Canada	560	27.5	27.5	27.1	23.7	20.3	0.3	1.1	23.5	32.4
Norway (8)	689	23.6	23.6	25.6	26.0	15.8	8.2	0.7	25.8	21.4
Abu Dhabi, UAE	685	34.4	34.4	28.4	17.1	17.7	2.2	0.2	39.6	29.0
Dubai, UAE	869	49.0	49.0	24.9	14.8	9.7	1.6	0.1	45.8	52.4
Florida, US	288	23.1	23.1	29.0	23.7	23.4	0.3	0.5	24.4	22.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S01_07 (S042216): Physics / Applying Type: MC Key: D
Label: Student reading a book

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	53.4	3.5	37.7	3.8	53.4	1.0	0.7	51.6	55.3
Bahrain	701	51.2	8.8	28.1	10.1	51.2	1.7	0.1	55.3	47.1
Botswana	847	54.9	9.0	25.6	7.8	54.9	1.0	1.7	56.4	53.3
Canada	1254	51.9	3.2	39.9	3.4	51.9	0.5	1.1	52.7	51.2
Chile	701	44.4	4.6	44.3	5.3	44.4	1.1	0.4	44.6	44.2
Chinese Taipei	815	81.2	2.1	15.4	1.0	81.2	0.4	0.0	81.7	80.6
Egypt	1124	54.5	10.2	17.0	16.2	54.5	1.6	0.6	50.8	58.5
England	685	72.9	5.5	16.2	4.4	72.9	0.8	0.3	75.2	70.5
Georgia	569	40.7	7.9	41.2	5.1	40.7	3.3	1.7	48.9	32.5
Hong Kong SAR	596	69.4	3.5	24.2	2.8	69.4	0.1	0.0	70.4	68.6
Hungary	692	57.8	4.1	33.7	4.3	57.8	0.1	0.0	57.3	58.2
Iran, Islamic Rep. of	879	73.8	5.6	14.1	3.8	73.8	1.1	1.6	78.9	69.2
Ireland	670	58.6	3.9	31.5	5.5	58.6	0.4	0.1	59.4	57.8
Israel	782	56.4	7.8	28.4	5.0	56.4	1.1	1.3	59.7	53.4
Italy	640	42.4	6.5	44.2	6.2	42.4	0.1	0.5	40.7	44.1
Japan	680	73.4	2.2	20.8	3.1	73.4	0.5	0.0	78.6	67.9
Jordan	1128	54.9	8.9	23.0	11.6	54.9	1.0	0.6	62.6	47.6
Kazakhstan	706	54.1	3.6	34.8	6.5	54.1	0.3	0.8	55.6	52.7
Korea, Rep. of	761	88.7	2.8	6.0	1.9	88.7	0.6	0.0	87.6	89.7
Kuwait	611	50.2	11.6	22.4	12.6	50.2	2.8	0.4	57.5	42.8
Lebanon	538	44.2	6.7	37.8	7.0	44.2	3.6	0.7	46.6	41.1
Lithuania	617	60.5	1.4	35.2	2.8	60.5	0.1	0.0	64.9	56.3
Malaysia	1376	56.6	4.4	34.6	3.1	56.6	0.7	0.6	62.9	49.7
Malta	536	72.5	1.9	20.3	5.1	72.5	0.2	0.0	76.4	68.7
Morocco	1898	54.6	5.8	26.2	10.2	54.6	2.5	0.8	54.3	54.8
New Zealand	1181	66.3	3.0	25.3	4.0	66.3	1.1	0.3	65.6	67.2
Norway	665	61.4	3.2	30.2	4.4	61.4	0.8	0.1	64.0	58.9
Oman	1285	60.8	4.6	21.6	8.6	60.8	3.6	0.9	69.8	52.1
Qatar	760	75.1	4.9	14.8	3.1	75.1	1.0	1.2	78.8	71.1
Russian Federation	683	54.5	3.0	38.8	2.0	54.5	1.2	0.4	60.3	48.9
Saudi Arabia	543	49.9	9.8	26.3	13.2	49.9	0.3	0.5	50.8	48.9
Singapore	879	90.4	0.9	7.6	0.9	90.4	0.1	0.2	92.5	88.4
Slovenia	607	85.8	1.7	10.7	1.7	85.8	0.1	0.0	87.9	83.5
South Africa	1754	35.8	9.6	36.0	12.6	35.8	3.5	2.5	38.3	33.1
Sweden	582	58.4	4.7	28.2	5.0	58.4	3.1	0.6	60.8	55.9
Thailand	926	54.8	8.6	32.0	3.5	54.8	0.8	0.3	59.7	49.4
Turkey	865	47.2	11.7	34.3	6.2	47.2	0.3	0.2	52.6	42.5
United Arab Emirates	2555	62.8	6.9	22.6	6.4	62.8	1.1	0.2	66.6	58.8
United States	1432	59.2	2.5	33.3	3.4	59.2	0.9	0.8	60.3	58.1
International Avg (n=39)	36010	59.9	5.4	27.3	5.7	59.9	1.1	0.6	62.5	57.2
Buenos Aires, Argentina	467	38.3	7.5	41.4	4.4	38.3	6.5	1.9	42.8	33.4
Ontario, Canada	649	51.0	2.9	40.7	3.6	51.0	0.5	1.2	52.3	49.7
Quebec, Canada	564	52.0	2.8	42.8	0.6	52.0	0.7	1.1	49.2	55.5
Norway (8)	689	43.3	7.0	41.4	5.7	43.3	1.7	1.0	44.1	42.4
Abu Dhabi, UAE	685	64.3	7.9	18.5	7.7	64.3	1.5	0.2	71.8	56.5
Dubai, UAE	869	72.0	4.7	19.4	3.2	72.0	0.7	0.1	74.8	68.9
Florida, US	288	62.8	1.6	28.1	6.3	62.8	0.3	0.8	60.1	65.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S01_08 (S042249): Physics / Knowing Type: MC Key: B
Label: Example of a lever

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	70.7	10.9	70.7	6.6	10.4	0.8	0.7	69.4	72.0
Bahrain	701	35.4	10.0	35.4	36.8	15.3	2.3	0.1	40.6	30.3
Botswana	843	26.4	25.6	26.4	30.3	13.7	1.7	2.2	23.6	29.3
Canada	1255	76.5	4.5	76.5	9.0	7.7	1.2	1.1	74.8	78.2
Chile	701	81.7	8.9	81.7	2.4	4.8	1.6	0.5	81.7	81.7
Chinese Taipei	815	48.8	41.1	48.8	9.1	0.6	0.4	0.0	43.3	54.2
Egypt	1124	38.2	6.2	38.2	35.3	17.3	2.5	0.6	42.2	33.7
England	685	71.1	10.8	71.1	5.0	10.9	1.9	0.3	67.8	74.5
Georgia	569	31.6	20.8	31.6	18.1	24.5	2.9	2.1	29.5	33.8
Hong Kong SAR	596	57.4	20.3	57.4	18.6	2.2	1.5	0.0	52.9	61.3
Hungary	692	39.1	19.2	39.1	30.8	9.7	1.3	0.0	37.8	40.3
Iran, Islamic Rep. of	879	53.6	11.1	53.6	20.1	8.5	4.8	1.9	53.7	53.6
Ireland	670	66.3	9.8	66.3	9.0	13.9	0.9	0.1	64.4	68.1
Israel	782	25.1	9.5	25.1	51.6	9.6	2.9	1.4	21.0	28.7
Italy	640	84.5	7.9	84.5	4.1	1.9	1.1	0.5	86.4	82.7
Japan	680	91.3	3.9	91.3	2.4	0.7	1.7	0.0	88.2	94.6
Jordan	1128	22.9	5.7	22.9	55.8	13.3	1.6	0.6	34.4	12.1
Kazakhstan	705	57.4	11.0	57.4	7.7	22.4	0.6	0.8	56.5	58.2
Korea, Rep. of	761	79.9	1.4	79.9	11.7	6.5	0.4	0.0	78.1	81.6
Kuwait	611	20.3	12.1	20.3	50.7	12.5	4.0	0.4	22.0	18.5
Lebanon	529	23.7	10.3	23.7	37.3	14.8	12.4	1.5	23.7	23.7
Lithuania	617	37.8	36.6	37.8	15.9	7.4	2.2	0.1	35.9	39.6
Malaysia	1376	67.0	9.4	67.0	12.6	9.2	0.8	0.9	70.6	63.0
Malta	536	65.4	6.1	65.4	9.7	15.5	3.3	0.0	64.7	66.1
Morocco	1898	8.2	5.3	8.2	67.5	14.6	3.4	0.9	8.9	7.6
New Zealand	1181	69.2	9.7	69.2	9.7	8.6	2.5	0.3	66.5	72.4
Norway	665	22.4	27.8	22.4	23.1	18.8	7.8	0.1	17.6	27.3
Oman	1287	28.7	19.0	28.7	36.9	12.6	1.8	1.0	36.0	21.8
Qatar	760	33.9	8.5	33.9	39.8	14.5	2.1	1.2	37.2	30.3
Russian Federation	683	81.9	2.4	81.9	2.8	10.8	1.7	0.4	78.5	85.4
Saudi Arabia	543	21.0	17.7	21.0	44.6	14.8	1.4	0.5	23.4	18.4
Singapore	879	60.7	9.0	60.7	18.9	9.9	1.3	0.2	57.4	63.8
Slovenia	607	36.5	7.9	36.5	12.3	36.5	6.6	0.1	34.7	38.5
South Africa	1754	34.3	12.4	34.3	26.2	21.4	3.0	2.7	38.7	29.6
Sweden	582	42.8	33.2	42.8	15.5	4.3	3.3	0.8	41.9	43.7
Thailand	926	13.0	27.5	13.0	47.1	10.4	1.6	0.3	11.7	14.5
Turkey	865	49.2	9.7	49.2	26.4	13.6	0.8	0.2	53.5	45.5
United Arab Emirates	2555	34.8	11.9	34.8	38.0	13.0	2.0	0.3	31.6	38.1
United States	1432	68.5	7.1	68.5	11.8	10.1	1.6	0.9	61.8	75.3
International Avg (n=39)	35999	48.1	13.4	48.1	23.4	12.0	2.5	0.7	47.8	48.5
Buenos Aires, Argentina	469	73.1	13.6	73.1	2.6	1.8	6.7	2.2	73.7	72.7
Ontario, Canada	649	76.9	4.8	76.9	8.4	7.3	1.5	1.2	76.0	77.7
Quebec, Canada	565	79.7	3.5	79.7	8.4	6.3	1.1	1.1	77.1	82.9
Norway (8)	689	20.5	25.5	20.5	26.7	20.8	5.6	1.0	21.8	19.1
Abu Dhabi, UAE	685	27.0	11.1	27.0	48.8	10.9	2.0	0.2	25.1	29.0
Dubai, UAE	869	55.5	11.0	55.5	18.7	13.0	1.7	0.1	52.3	58.9
Florida, US	288	61.3	12.6	61.3	12.9	10.9	1.6	0.8	62.2	60.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S01_09 (S042094): Physics / Applying Type: CR 1 Point
Label: Why plastic bottle cracked

COUNTRY	N	10 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	40.8	1.4	3.6	47.5	40.8	6.0	0.7	39.6	42.0
Bahrain	701	29.1	5.3	4.6	50.8	29.1	10.0	0.3	30.9	27.3
Botswana	843	25.5	0.6	1.4	63.9	25.5	5.9	2.8	24.7	26.3
Canada	1256	44.1	3.6	2.3	42.9	44.1	6.0	1.1	44.9	43.2
Chile	701	8.3	0.7	0.9	75.1	8.3	14.6	0.5	6.5	9.9
Chinese Taipei	815	39.5	9.3	0.9	43.7	39.5	6.7	0.0	37.2	41.8
Egypt	1124	20.7	2.3	1.6	51.9	20.7	22.7	0.7	22.2	19.1
England	685	49.4	2.9	2.3	38.2	49.4	7.0	0.3	52.5	46.3
Georgia	569	21.7	0.0	4.3	52.7	21.7	19.2	2.1	17.7	25.7
Hong Kong SAR	596	17.5	8.3	0.3	63.8	17.5	10.2	0.0	16.9	17.9
Hungary	692	43.6	0.2	0.4	49.3	43.6	6.5	0.0	39.0	47.8
Iran, Islamic Rep. of	879	27.2	0.8	0.8	54.2	27.2	14.2	2.9	28.9	25.7
Ireland	670	74.1	0.4	0.2	22.7	74.1	2.4	0.3	73.6	74.6
Israel	782	31.6	0.5	1.5	51.9	31.6	12.5	2.0	32.4	30.8
Italy	640	38.3	0.1	0.6	49.4	38.3	11.0	0.6	37.4	39.1
Japan	680	45.8	0.7	0.2	46.2	45.8	7.0	0.0	46.2	45.5
Jordan	1128	14.2	3.5	2.5	64.0	14.2	15.1	0.8	16.0	12.5
Kazakhstan	705	55.1	0.9	0.9	31.8	55.1	10.5	0.8	53.0	57.1
Korea, Rep. of	761	68.3	0.7	0.6	27.1	68.3	3.3	0.0	71.7	65.3
Kuwait	611	19.3	1.0	2.4	54.1	19.3	22.8	0.4	21.9	16.7
Lebanon	545	10.5	1.2	1.0	54.2	10.5	31.2	2.0	9.7	11.5
Lithuania	617	44.9	3.6	2.2	43.9	44.9	5.3	0.1	40.6	49.1
Malaysia	1376	6.0	2.3	3.2	76.1	6.0	11.2	1.2	6.3	5.7
Malta	536	25.1	1.1	0.6	62.6	25.1	10.7	0.0	21.9	28.3
Morocco	1898	21.8	0.1	0.2	56.6	21.8	20.0	1.2	21.7	21.8
New Zealand	1181	35.7	1.0	3.1	52.5	35.7	7.0	0.7	33.9	37.8
Norway	665	56.2	0.6	3.3	34.5	56.2	4.8	0.6	57.3	55.0
Oman	1287	11.7	2.2	3.4	70.5	11.7	11.2	1.0	14.1	9.4
Qatar	760	18.5	2.5	2.3	59.4	18.5	16.0	1.2	20.0	16.9
Russian Federation	683	43.7	1.1	5.7	37.5	43.7	11.4	0.6	40.8	46.6
Saudi Arabia	544	13.8	1.2	1.8	65.7	13.8	16.7	0.8	14.1	13.5
Singapore	879	33.2	23.6	2.4	37.3	33.2	3.3	0.2	30.8	35.5
Slovenia	607	43.5	3.2	0.1	48.7	43.5	4.4	0.1	38.2	49.1
South Africa	1754	9.9	0.9	1.3	76.5	9.9	8.3	3.0	10.5	9.2
Sweden	582	49.4	2.0	1.5	38.0	49.4	8.2	1.0	50.0	48.9
Thailand	926	11.8	0.3	0.9	68.1	11.8	18.3	0.6	13.5	9.9
Turkey	865	20.3	2.0	0.7	66.5	20.3	10.1	0.4	21.2	19.5
United Arab Emirates	2555	21.4	1.5	2.4	62.7	21.4	11.5	0.4	21.1	21.7
United States	1432	41.7	1.3	2.7	50.1	41.7	3.0	1.2	39.3	44.0
International Avg (n=39)	36017	31.6	2.4	1.8	52.4	31.6	10.9	0.8	31.2	32.0
Buenos Aires, Argentina	472	10.7	1.9	3.4	49.0	10.7	31.9	3.1	12.4	9.0
Ontario, Canada	650	44.3	3.7	3.0	41.8	44.3	5.9	1.3	46.5	42.1
Quebec, Canada	565	42.4	3.5	0.9	45.3	42.4	6.8	1.1	40.7	44.4
Norway (8)	689	58.2	1.1	3.1	31.2	58.2	5.4	1.0	60.9	55.5
Abu Dhabi, UAE	685	18.3	1.6	3.4	63.6	18.3	12.9	0.2	20.1	16.5
Dubai, UAE	869	32.0	1.9	2.6	56.1	32.0	7.2	0.2	31.5	32.7
Florida, US	288	36.9	0.6	1.8	51.5	36.9	7.9	1.3	35.3	38.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_10A (S042293A): Physics / Knowing Type: CR 1 Point
Label: Force causing the ball to fall

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	72.5	16.5	72.5	10.3	0.7	70.1	75.0
Bahrain	700	60.1	25.1	60.1	14.0	0.8	66.7	53.7
Botswana	843	43.3	36.0	43.3	17.3	3.4	48.4	37.9
Canada	1256	79.3	10.3	79.3	8.9	1.5	77.9	80.7
Chile	701	47.9	17.5	47.9	34.1	0.5	38.6	56.6
Chinese Taipei	815	79.9	12.7	79.9	7.3	0.0	76.8	83.0
Egypt	1124	32.5	32.9	32.5	33.6	1.0	35.0	29.6
England	685	84.6	7.0	84.6	8.2	0.3	85.0	84.1
Georgia	569	32.1	5.5	32.1	60.2	2.3	32.0	32.1
Hong Kong SAR	596	79.2	9.3	79.2	11.5	0.0	78.5	79.7
Hungary	692	64.2	13.4	64.2	22.3	0.0	61.7	66.5
Iran, Islamic Rep. of	879	68.8	12.4	68.8	15.4	3.5	70.1	67.6
Ireland	670	79.5	12.5	79.5	7.7	0.3	76.5	82.4
Israel	782	71.3	14.1	71.3	12.4	2.2	72.5	70.3
Italy	640	57.2	14.7	57.2	27.5	0.6	53.3	60.8
Japan	680	78.6	14.7	78.6	6.6	0.1	75.1	82.4
Jordan	1128	51.5	34.2	51.5	13.5	0.8	53.2	49.9
Kazakhstan	706	53.7	15.6	53.7	29.8	1.0	51.3	55.9
Korea, Rep. of	761	72.4	23.1	72.4	4.5	0.0	73.0	71.8
Kuwait	611	61.6	19.4	61.6	18.0	1.0	70.2	52.8
Lebanon	545	48.5	25.9	48.5	23.3	2.3	47.2	50.3
Lithuania	617	61.6	23.4	61.6	14.9	0.1	62.4	60.9
Malaysia	1376	57.4	27.5	57.4	13.6	1.5	58.8	55.8
Malta	536	62.9	20.8	62.9	16.1	0.2	58.4	67.4
Morocco	1898	35.1	35.9	35.1	27.5	1.4	27.3	42.5
New Zealand	1181	70.5	17.3	70.5	11.6	0.7	68.5	72.9
Norway	665	71.3	13.9	71.3	14.1	0.7	69.1	73.5
Oman	1287	55.1	28.4	55.1	15.3	1.1	58.3	52.0
Qatar	759	56.3	23.3	56.3	19.1	1.3	56.9	55.7
Russian Federation	683	73.2	6.2	73.2	20.0	0.7	74.4	72.0
Saudi Arabia	544	33.8	42.4	33.8	22.9	0.8	34.2	33.5
Singapore	879	73.7	21.5	73.7	4.6	0.3	73.4	73.9
Slovenia	607	72.7	21.5	72.7	5.6	0.1	68.6	77.2
South Africa	1754	31.2	39.4	31.2	26.2	3.2	27.7	34.8
Sweden	582	71.5	13.1	71.5	13.9	1.4	69.2	73.8
Thailand	926	32.1	20.4	32.1	46.7	0.7	34.9	29.1
Turkey	865	52.8	27.3	52.8	19.3	0.6	54.4	51.4
United Arab Emirates	2555	61.8	20.9	61.8	16.8	0.5	64.9	58.6
United States	1432	76.8	20.6	76.8	1.5	1.2	75.9	77.6
International Avg (n=39)	36016	60.7	20.4	60.7	17.8	1.0	60.3	61.2
Buenos Aires, Argentina	473	44.6	15.1	44.6	36.2	4.1	39.8	49.7
Ontario, Canada	650	82.5	8.0	82.5	7.8	1.7	84.1	80.8
Quebec, Canada	565	71.9	16.8	71.9	9.9	1.4	66.5	78.4
Norway (8)	689	67.0	13.7	67.0	18.2	1.1	64.6	69.4
Abu Dhabi, UAE	685	54.0	25.1	54.0	20.6	0.3	60.0	47.7
Dubai, UAE	869	75.3	14.4	75.3	10.0	0.3	76.0	74.6
Florida, US	288	73.5	24.1	73.5	1.1	1.3	70.4	76.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_10B (S042293B): Physics / Reasoning Type: CR 1 Point
Label: Ball bouncing up again

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	14.1	73.8	10.5	14.1	0.9	0.7	11.9	16.3
Bahrain	700	10.9	45.9	40.3	10.9	2.1	0.9	9.4	12.3
Botswana	843	3.8	37.9	52.1	3.8	2.4	3.8	2.5	5.1
Canada	1256	21.3	58.3	17.6	21.3	1.1	1.8	19.1	23.7
Chile	701	1.4	68.3	24.8	1.4	4.6	0.9	0.7	2.0
Chinese Taipei	815	4.6	83.4	11.7	4.6	0.3	0.0	4.7	4.4
Egypt	1124	4.3	25.7	64.4	4.3	4.3	1.3	4.4	4.1
England	685	15.2	69.9	13.6	15.2	1.0	0.3	14.0	16.4
Georgia	569	9.7	41.1	41.3	9.7	5.6	2.4	11.7	7.7
Hong Kong SAR	596	5.9	74.5	18.9	5.9	0.7	0.0	3.9	7.6
Hungary	692	9.8	76.8	11.9	9.8	1.1	0.4	5.1	13.9
Iran, Islamic Rep. of	879	11.5	66.8	16.4	11.5	1.7	3.8	13.2	9.9
Ireland	670	6.4	80.7	12.3	6.4	0.2	0.4	3.6	9.2
Israel	782	17.4	58.1	20.7	17.4	1.5	2.4	13.1	21.2
Italy	640	9.0	78.2	11.2	9.0	1.0	0.6	8.4	9.5
Japan	680	2.8	83.7	12.6	2.8	0.6	0.3	2.6	3.0
Jordan	1128	3.9	26.3	66.8	3.9	2.0	1.0	3.1	4.7
Kazakhstan	706	51.3	12.3	31.2	51.3	4.0	1.2	53.3	49.5
Korea, Rep. of	761	21.3	69.7	8.0	21.3	1.0	0.0	20.7	21.8
Kuwait	611	6.1	37.7	52.8	6.1	2.2	1.2	5.3	6.9
Lebanon	545	4.0	31.6	55.6	4.0	5.9	2.8	4.7	3.1
Lithuania	617	10.0	79.4	10.3	10.0	0.2	0.1	9.7	10.3
Malaysia	1376	5.1	43.1	47.6	5.1	2.1	2.1	4.1	6.2
Malta	536	21.8	41.5	35.6	21.8	0.9	0.2	19.2	24.4
Morocco	1898	3.0	34.9	55.1	3.0	5.4	1.6	2.8	3.2
New Zealand	1181	12.6	73.7	11.7	12.6	1.2	0.7	13.6	11.5
Norway	665	3.5	87.4	7.6	3.5	0.6	0.9	3.0	4.0
Oman	1288	13.5	47.6	35.2	13.5	2.5	1.2	16.4	10.7
Qatar	759	8.5	40.9	45.9	8.5	3.2	1.5	6.8	10.2
Russian Federation	683	12.9	67.5	16.6	12.9	2.1	0.9	8.7	17.1
Saudi Arabia	544	5.4	29.1	62.5	5.4	2.1	0.8	5.0	5.8
Singapore	879	53.4	35.7	10.5	53.4	0.2	0.3	52.2	54.5
Slovenia	607	3.4	25.0	71.0	3.4	0.5	0.1	0.7	6.2
South Africa	1754	10.8	24.2	59.4	10.8	2.0	3.6	10.9	10.6
Sweden	582	4.5	77.2	15.4	4.5	0.9	2.1	5.1	3.8
Thailand	926	1.0	61.3	31.6	1.0	5.2	0.9	0.5	1.5
Turkey	865	18.7	45.5	32.5	18.7	2.4	0.9	18.2	19.1
United Arab Emirates	2555	9.4	55.2	33.3	9.4	1.6	0.5	9.3	9.5
United States	1432	14.1	70.7	12.5	14.1	1.1	1.6	12.7	15.5
International Avg (n=39)	36017	11.4	54.9	30.5	11.4	2.0	1.2	10.6	12.2
Buenos Aires, Argentina	473	4.3	62.4	21.7	4.3	7.1	4.5	3.1	5.6
Ontario, Canada	650	16.7	60.4	19.5	16.7	1.5	1.9	12.9	20.5
Quebec, Canada	565	33.7	50.3	13.6	33.7	0.5	1.9	33.0	34.5
Norway (8)	689	4.1	84.8	8.2	4.1	1.7	1.1	6.4	1.8
Abu Dhabi, UAE	685	10.7	47.6	38.9	10.7	2.4	0.4	12.7	8.6
Dubai, UAE	869	9.8	66.5	21.9	9.8	1.5	0.3	8.0	11.7
Florida, US	288	15.7	62.5	19.4	15.7	1.1	1.3	14.3	16.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_11 (S042195): Physics / Applying Type: CR 1 Point
Label: What is resistance in a circuit

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	3.0	3.6	69.1	3.0	23.5	0.7	2.7	3.4
Bahrain	700	8.6	8.9	68.3	8.6	13.4	0.9	9.4	7.8
Botswana	847	6.8	9.9	72.3	6.8	6.5	4.4	7.4	6.2
Canada	1256	9.3	7.5	57.8	9.3	23.6	1.8	10.8	7.7
Chile	701	2.0	0.8	49.2	2.0	47.1	0.9	2.4	1.6
Chinese Taipei	815	11.9	3.6	65.9	11.9	18.7	0.0	11.7	12.0
Egypt	1124	14.8	1.1	58.7	14.8	24.0	1.4	13.9	15.8
England	685	9.0	6.0	60.2	9.0	24.5	0.3	12.2	5.8
Georgia	569	14.6	8.1	32.2	14.6	42.6	2.4	13.6	15.7
Hong Kong SAR	596	7.9	3.0	80.3	7.9	8.8	0.0	6.8	9.0
Hungary	692	33.7	11.7	31.8	33.7	22.3	0.5	31.9	35.3
Iran, Islamic Rep. of	879	25.9	8.6	39.5	25.9	22.2	3.8	30.3	22.0
Ireland	670	13.8	13.9	53.5	13.8	18.5	0.4	15.7	11.8
Israel	782	4.4	2.6	61.7	4.4	28.9	2.4	5.3	3.7
Italy	639	20.3	8.7	34.9	20.3	35.5	0.6	20.8	19.8
Japan	680	66.7	2.9	24.1	66.7	5.9	0.3	68.4	65.0
Jordan	1128	4.2	1.9	70.4	4.2	22.4	1.1	5.8	2.8
Kazakhstan	706	72.0	3.5	17.6	72.0	5.8	1.2	72.6	71.3
Korea, Rep. of	761	12.8	2.4	70.9	12.8	13.7	0.3	11.2	14.1
Kuwait	611	15.7	10.3	52.0	15.7	20.4	1.6	15.2	16.2
Lebanon	545	11.0	4.7	41.0	11.0	40.4	3.0	10.9	11.0
Lithuania	617	11.6	5.0	48.2	11.6	35.1	0.1	10.5	12.6
Malaysia	1376	12.6	6.0	64.5	12.6	14.6	2.2	13.1	12.1
Malta	536	8.7	8.9	54.8	8.7	27.3	0.2	8.8	8.7
Morocco	1898	5.1	9.8	53.3	5.1	30.2	1.6	6.8	3.5
New Zealand	1181	3.2	1.5	67.4	3.2	27.2	0.7	1.9	4.8
Norway	665	15.2	6.0	54.1	15.2	23.7	1.0	15.6	14.9
Oman	1285	14.9	12.0	57.3	14.9	14.6	1.2	18.5	11.4
Qatar	759	8.0	5.3	62.3	8.0	22.8	1.5	7.9	8.1
Russian Federation	683	51.1	10.7	20.4	51.1	16.9	0.9	54.1	48.1
Saudi Arabia	543	5.7	5.3	67.6	5.7	20.5	0.8	6.8	4.5
Singapore	879	55.8	5.2	35.6	55.8	3.0	0.3	59.9	52.0
Slovenia	607	4.0	0.6	66.5	4.0	28.6	0.2	4.3	3.6
South Africa	1754	12.7	3.3	71.3	12.7	9.0	3.8	15.6	9.7
Sweden	582	8.7	6.4	58.0	8.7	24.6	2.3	8.0	9.5
Thailand	926	6.4	2.9	69.4	6.4	20.4	0.9	7.2	5.5
Turkey	865	13.8	1.8	68.1	13.8	15.3	0.9	14.6	13.2
United Arab Emirates	2555	15.9	9.9	59.0	15.9	14.5	0.5	15.9	16.0
United States	1432	8.0	9.9	72.1	8.0	8.3	1.6	8.2	7.9
International Avg (n=39)	36016	16.2	6.0	55.4	16.2	21.2	1.2	16.8	15.5
Buenos Aires, Argentina	470	1.1	0.2	29.7	1.1	64.8	4.2	0.3	1.9
Ontario, Canada	650	10.7	7.8	55.8	10.7	23.7	2.0	13.3	8.2
Quebec, Canada	565	7.8	7.5	59.2	7.8	23.5	2.0	7.3	8.5
Norway (8)	689	2.4	2.0	63.5	2.4	31.0	1.1	0.2	4.6
Abu Dhabi, UAE	685	16.1	11.0	59.6	16.1	12.9	0.4	18.1	14.1
Dubai, UAE	869	21.2	8.4	56.1	21.2	14.0	0.3	18.7	23.9
Florida, US	288	8.2	7.5	69.0	8.2	13.9	1.3	8.5	8.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_12 (S042400): Physics / Applying Type: CR 1 Point
Label: Wood/metal container to keep ice

COUNTRY	N	10 %	11 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	10.7	4.5	10.9	36.7	26.9	15.2	9.1	1.1	15.1	15.2
Bahrain	700	9.5	10.7	10.9	5.1	49.0	20.1	13.9	1.1	25.6	14.7
Botswana	847	11.1	4.8	1.8	2.1	66.1	15.9	8.3	5.8	17.8	13.9
Canada	1256	10.9	4.9	5.2	18.7	45.6	15.8	11.2	3.5	14.0	17.6
Chile	701	3.2	3.2	2.4	12.1	51.7	6.4	25.8	1.6	4.7	7.9
Chinese Taipei	815	43.1	2.0	0.8	22.5	24.2	45.1	7.3	0.1	42.0	48.2
Egypt	1124	11.9	3.6	6.3	2.9	41.9	15.6	31.5	1.8	17.4	13.5
England	685	15.4	20.2	5.3	12.0	34.4	35.6	12.2	0.5	37.4	33.9
Georgia	569	16.0	4.6	4.1	5.3	39.3	20.6	27.2	3.6	20.3	20.8
Hong Kong SAR	596	21.6	5.1	5.0	14.1	40.8	26.7	13.5	0.0	25.7	27.5
Hungary	692	20.4	3.7	3.1	19.6	38.0	24.2	14.2	0.9	25.5	23.0
Iran, Islamic Rep. of	879	8.0	6.3	3.1	12.5	44.4	14.3	21.0	4.7	13.4	15.2
Ireland	670	16.7	8.9	2.0	18.2	44.2	25.6	9.3	0.6	25.4	25.7
Israel	782	13.8	26.5	5.1	8.1	27.4	40.3	15.9	3.2	39.7	40.8
Italy	640	17.0	7.6	4.5	10.9	39.0	24.7	19.9	1.0	23.8	25.5
Japan	680	4.0	36.7	2.8	12.8	32.5	40.6	11.1	0.3	40.3	41.0
Jordan	1128	13.3	5.4	12.7	2.6	45.7	18.7	18.8	1.5	19.9	17.5
Kazakhstan	706	49.1	2.4	2.2	1.1	28.9	51.5	14.5	1.9	51.9	51.2
Korea, Rep. of	761	31.1	2.7	1.2	4.5	50.7	33.8	9.6	0.3	31.4	35.9
Kuwait	611	7.4	3.0	6.7	3.6	48.2	10.4	28.9	2.2	11.6	9.2
Lebanon	545	5.3	2.9	1.2	1.0	43.4	8.2	41.1	5.1	9.4	6.6
Lithuania	617	10.3	9.5	10.4	14.1	40.3	19.8	15.2	0.1	15.2	24.3
Malaysia	1376	16.3	3.8	4.5	5.1	52.6	20.0	14.9	2.9	21.4	18.5
Malta	536	8.6	6.3	5.1	11.9	48.0	14.9	19.1	0.9	13.6	16.2
Morocco	1898	13.3	0.0	7.5	0.5	42.7	13.3	33.6	2.4	12.8	13.8
New Zealand	1181	8.1	4.5	2.3	27.4	43.6	12.6	11.5	2.6	11.8	13.6
Norway	665	8.3	3.1	8.2	15.6	45.2	11.4	17.3	2.3	9.8	13.0
Oman	1286	13.3	9.4	7.3	9.0	46.5	22.7	12.6	1.8	28.3	17.3
Qatar	759	25.8	6.7	3.9	5.2	36.7	32.5	20.2	1.5	36.1	28.7
Russian Federation	683	32.8	3.9	7.4	10.4	24.2	36.7	19.2	2.2	34.7	38.6
Saudi Arabia	544	12.6	1.6	7.2	2.3	51.3	14.1	23.3	1.7	18.7	9.4
Singapore	879	69.3	4.6	1.6	4.0	16.6	73.9	3.3	0.4	81.3	66.9
Slovenia	607	30.6	8.6	4.1	10.2	37.5	39.2	8.5	0.6	39.4	38.9
South Africa	1754	5.7	2.3	3.2	4.1	68.6	8.0	10.6	5.6	8.1	7.9
Sweden	582	19.3	4.5	5.8	12.6	36.2	23.8	18.8	2.8	22.5	25.0
Thailand	926	4.1	4.0	9.3	5.1	51.0	8.1	25.1	1.4	7.4	8.9
Turkey	865	13.8	9.2	4.2	9.8	45.7	23.0	16.0	1.3	24.1	21.9
United Arab Emirates	2554	12.5	10.5	4.0	6.0	49.8	23.0	15.9	1.2	25.2	20.6
United States	1432	16.2	6.1	6.9	18.8	45.5	22.2	4.6	2.0	19.6	24.9
International Avg (n=39)	36018	16.9	6.9	5.1	10.2	42.2	23.8	16.8	1.9	24.2	23.4
Buenos Aires, Argentina	473	4.7	1.1	2.1	9.2	32.7	5.8	43.7	6.4	5.7	6.1
Ontario, Canada	650	12.1	4.8	4.5	19.2	46.5	16.9	9.3	3.7	15.3	18.5
Quebec, Canada	565	8.2	5.8	6.0	14.7	47.5	14.0	13.8	4.1	11.0	17.6
Norway (8)	689	2.2	1.5	6.7	17.1	50.8	3.8	19.4	2.2	1.7	5.9
Abu Dhabi, UAE	685	7.9	10.6	4.3	6.5	53.5	18.5	15.6	1.6	22.0	14.8
Dubai, UAE	869	21.9	14.5	3.0	7.1	42.9	36.5	9.9	0.6	36.7	36.2
Florida, US	288	15.5	5.3	8.0	13.2	46.5	20.8	8.2	3.4	17.3	23.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S01_14 (S042164): Earth Science / Knowing Type: MC Key: B
Label: Result gravitational pull of moon

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1487	63.2	4.0	63.2	10.8	19.4	1.2	1.4	59.8	66.6
Bahrain	700	51.8	5.5	51.8	14.9	26.1	0.4	1.3	49.2	54.4
Botswana	848	6.6	19.6	6.6	21.7	42.1	1.6	8.4	5.3	8.1
Canada	1253	45.6	3.4	45.6	13.6	32.0	0.9	4.4	39.6	51.9
Chile	701	46.2	4.0	46.2	21.0	25.8	1.2	1.7	34.6	57.1
Chinese Taipei	815	50.7	2.8	50.7	17.1	28.9	0.1	0.3	38.2	62.9
Egypt	1124	29.8	7.3	29.8	21.5	37.5	1.8	2.1	26.2	33.7
England	685	49.8	6.0	49.8	14.0	28.0	1.5	0.7	46.3	53.3
Georgia	569	31.0	5.9	31.0	39.3	16.3	1.8	5.7	27.4	34.5
Hong Kong SAR	596	54.0	3.0	54.0	24.3	18.2	0.4	0.1	43.4	63.2
Hungary	692	36.4	5.7	36.4	16.0	38.8	1.3	1.8	29.1	42.9
Iran, Islamic Rep. of	879	37.0	6.6	37.0	27.6	22.5	1.2	5.0	31.8	41.7
Ireland	670	48.2	5.2	48.2	18.5	25.9	0.9	1.2	39.9	56.5
Israel	782	42.2	7.1	42.2	15.4	30.4	1.1	3.7	35.7	48.1
Italy	640	53.7	3.9	53.7	11.2	29.2	0.7	1.3	54.5	53.0
Japan	680	34.6	2.6	34.6	27.7	34.3	0.5	0.3	29.5	39.9
Jordan	1128	34.3	7.2	34.3	24.3	32.0	0.5	1.7	32.7	35.9
Kazakhstan	705	49.2	6.1	49.2	12.4	28.9	1.3	2.2	43.1	54.9
Korea, Rep. of	761	45.5	0.9	45.5	38.9	14.3	0.0	0.4	37.0	53.1
Kuwait	611	44.7	11.1	44.7	14.8	25.1	1.6	2.7	45.2	44.1
Lebanon	536	13.1	18.0	13.1	19.6	37.4	5.6	6.3	11.4	15.5
Lithuania	617	58.9	4.3	58.9	17.5	17.6	1.5	0.2	58.0	59.8
Malaysia	1376	33.1	8.4	33.1	21.9	31.9	0.6	4.1	31.3	35.1
Malta	536	28.8	11.5	28.8	21.0	36.3	1.3	1.1	19.0	38.5
Morocco	1896	33.1	5.6	33.1	29.5	26.6	2.4	2.9	31.6	34.5
New Zealand	1181	67.9	3.1	67.9	8.9	15.3	1.7	3.1	68.2	67.6
Norway	665	51.0	4.2	51.0	9.2	30.5	2.4	2.7	43.6	58.3
Oman	1288	50.0	6.1	50.0	17.4	23.1	1.3	2.2	55.0	45.2
Qatar	759	52.0	6.2	52.0	12.7	26.5	1.1	1.6	53.8	50.1
Russian Federation	683	69.8	2.6	69.8	15.6	8.2	1.1	2.7	64.6	74.9
Saudi Arabia	543	43.9	6.3	43.9	14.5	32.2	1.3	1.7	45.4	42.4
Singapore	878	51.4	3.4	51.4	13.6	30.7	0.3	0.6	47.4	55.1
Slovenia	607	58.4	1.2	58.4	8.7	30.3	0.7	0.7	53.5	63.7
South Africa	1751	16.0	20.3	16.0	13.8	42.3	1.2	6.4	14.4	17.7
Sweden	582	54.7	1.9	54.7	17.4	19.5	2.4	4.0	52.2	57.2
Thailand	926	47.7	5.3	47.7	27.6	17.1	0.8	1.5	44.5	51.1
Turkey	865	38.1	5.0	38.1	27.6	27.4	0.5	1.5	36.0	39.9
United Arab Emirates	2555	44.2	7.5	44.2	14.0	31.4	1.4	1.6	42.4	46.0
United States	1432	68.9	4.0	68.9	6.7	17.3	0.7	2.4	66.0	71.8
International Avg (n=39)	36002	44.5	6.2	44.5	18.5	27.1	1.2	2.4	40.7	48.2
Buenos Aires, Argentina	465	26.3	5.2	26.3	20.0	36.4	6.3	5.7	25.0	27.6
Ontario, Canada	650	44.1	5.2	44.1	14.1	31.1	0.7	4.9	40.1	48.0
Quebec, Canada	562	46.4	0.4	46.4	12.8	34.4	1.4	4.6	37.6	57.1
Norway (8)	689	54.7	3.1	54.7	8.3	28.6	2.9	2.4	51.7	57.8
Abu Dhabi, UAE	685	40.6	8.2	40.6	16.4	31.6	1.4	1.8	40.6	40.6
Dubai, UAE	869	52.9	7.2	52.9	11.3	26.2	1.2	1.2	47.4	59.0
Florida, US	288	69.0	3.2	69.0	5.8	17.8	0.7	3.6	65.2	72.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_01 (S062189): Earth Science / Knowing Type: CR 2 Points
Label: Benefits of recycling paper (DERIVED)

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	44.7	33.8	20.4	78.6	44.7	1.0	0.1	45.6	43.8
Bahrain	710	26.0	39.1	32.1	65.1	26.0	2.5	0.3	24.3	27.7
Botswana	849	14.8	28.2	53.7	42.9	14.8	3.3	0.0	14.5	15.0
Canada	1253	44.0	38.1	17.1	82.1	44.0	0.6	0.2	39.4	49.0
Chile	706	33.3	38.0	27.5	71.3	33.3	1.1	0.1	30.3	35.8
Chinese Taipei	818	58.6	31.2	9.7	89.8	58.6	0.5	0.0	58.5	58.6
Egypt	1125	10.3	34.1	50.9	44.4	10.3	4.6	0.1	11.1	9.4
England	689	46.4	30.7	21.1	77.1	46.4	1.7	0.1	47.7	45.1
Georgia	571	13.0	30.3	53.6	43.2	13.0	3.2	0.0	12.9	13.0
Hong Kong SAR	604	50.3	31.9	16.8	82.3	50.3	0.9	0.0	50.7	50.0
Hungary	703	41.5	37.2	20.8	78.6	41.5	0.5	0.0	37.7	45.3
Iran, Islamic Rep. of	886	27.0	31.7	39.1	58.6	27.0	2.3	0.0	30.4	23.9
Ireland	658	53.2	30.5	15.8	83.7	53.2	0.3	0.2	53.6	52.8
Israel	786	34.4	38.8	24.1	73.2	34.4	2.2	0.5	35.5	33.3
Italy	647	40.4	42.2	16.4	82.6	40.4	0.9	0.1	43.3	38.0
Japan	672	47.6	36.5	14.9	84.2	47.6	0.8	0.1	47.4	47.9
Jordan	1126	18.0	29.4	51.1	47.4	18.0	1.4	0.2	18.7	17.4
Kazakhstan	700	27.0	32.1	39.2	59.1	27.0	1.6	0.1	24.2	29.9
Korea, Rep. of	761	40.1	42.0	17.5	82.2	40.1	0.4	0.0	39.1	41.0
Kuwait	623	21.3	32.1	43.2	53.4	21.3	3.4	0.0	21.1	21.5
Lebanon	548	19.5	29.2	39.1	48.6	19.5	11.0	1.2	17.5	22.3
Lithuania	630	31.8	34.8	32.8	66.6	31.8	0.6	0.0	27.6	36.0
Malaysia	1383	37.7	34.2	26.8	71.9	37.7	1.1	0.2	35.0	40.8
Malta	544	31.2	39.9	27.4	71.1	31.2	1.5	0.0	27.7	34.5
Morocco	1889	13.2	31.8	51.7	45.0	13.2	3.3	0.0	13.3	13.2
New Zealand	1177	37.6	33.6	26.8	71.2	37.6	1.7	0.3	34.4	41.3
Norway	669	41.6	28.7	27.0	70.3	41.6	2.3	0.4	38.9	44.3
Oman	1290	21.3	35.9	39.6	57.2	21.3	3.0	0.2	24.3	18.4
Qatar	765	25.7	35.4	32.2	61.1	25.7	6.7	0.0	27.9	23.3
Russian Federation	684	30.5	40.2	28.0	70.6	30.5	1.0	0.3	31.3	29.7
Saudi Arabia	541	12.8	26.0	58.6	38.7	12.8	2.7	0.0	12.5	13.1
Singapore	879	55.2	29.8	14.5	85.0	55.2	0.5	0.0	53.2	57.0
Slovenia	615	33.0	43.2	22.9	76.1	33.0	0.9	0.0	32.6	33.3
South Africa	1769	14.0	27.1	55.2	41.1	14.0	3.3	0.3	14.3	13.8
Sweden	579	39.6	33.7	26.6	73.3	39.6	0.1	0.0	40.7	38.7
Thailand	922	44.4	30.4	23.2	74.8	44.4	2.0	0.0	42.9	46.2
Turkey	870	44.5	35.8	19.0	80.2	44.5	0.8	0.0	44.3	44.6
United Arab Emirates	2569	32.2	34.8	31.4	67.0	32.2	1.6	0.0	33.4	31.0
United States	1436	40.7	37.7	20.6	78.4	40.7	0.7	0.2	38.1	43.5
International Avg (n=39)	36146	33.3	34.1	30.5	67.4	33.3	2.0	0.1	32.7	33.9
Buenos Aires, Argentina	468	29.5	33.2	25.1	62.7	29.5	10.5	1.7	25.5	32.8
Ontario, Canada	647	46.0	34.7	18.7	80.7	46.0	0.6	0.0	41.6	50.3
Quebec, Canada	565	42.9	41.0	14.7	83.9	42.9	0.7	0.7	36.4	50.7
Norway (8)	683	31.0	28.4	37.7	59.4	31.0	2.9	0.0	25.9	36.7
Abu Dhabi, UAE	691	33.6	30.4	34.1	64.0	33.6	1.8	0.0	37.6	29.6
Dubai, UAE	879	38.6	39.5	20.8	78.0	38.6	1.1	0.1	37.2	40.0
Florida, US	290	36.5	39.3	22.1	75.8	36.5	2.1	0.0	30.8	40.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_01A (S062189A): Earth Science / Knowing Type: MC Key: A
Label: Benefits of recycling paper: deforestation

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	82.2	82.2	15.5	2.3	0.1	83.0	81.4
Bahrain	710	68.8	68.8	26.9	4.1	0.3	68.6	68.9
Botswana	849	54.0	54.0	36.9	9.1	0.0	53.2	54.8
Canada	1253	83.3	83.3	15.0	1.4	0.2	81.2	85.7
Chile	706	78.2	78.2	19.0	2.8	0.1	75.3	80.6
Chinese Taipei	818	94.8	94.8	4.4	0.7	0.0	95.5	94.2
Egypt	1126	50.6	50.6	39.3	10.0	0.1	54.0	46.8
England	689	80.8	80.8	16.7	2.5	0.1	84.5	77.1
Georgia	571	65.6	65.6	29.3	5.1	0.0	73.3	59.0
Hong Kong SAR	604	88.9	88.9	9.8	1.3	0.0	87.7	90.0
Hungary	703	85.2	85.2	13.8	1.0	0.0	80.8	89.6
Iran, Islamic Rep. of	886	66.9	66.9	28.1	5.0	0.0	68.4	65.5
Ireland	658	82.1	82.1	15.7	2.0	0.2	83.0	81.2
Israel	786	81.8	81.8	15.1	2.7	0.5	82.0	81.5
Italy	647	86.3	86.3	12.6	1.0	0.1	89.2	83.8
Japan	672	79.4	79.4	19.3	1.2	0.1	76.0	82.7
Jordan	1126	55.2	55.2	39.7	4.9	0.2	52.2	58.0
Kazakhstan	700	64.5	64.5	32.3	3.1	0.1	63.3	65.8
Korea, Rep. of	761	54.6	54.6	44.0	1.4	0.0	50.0	58.6
Kuwait	623	62.6	62.6	31.4	6.0	0.0	62.7	62.7
Lebanon	548	58.3	58.3	25.1	15.4	1.2	57.6	59.2
Lithuania	630	74.4	74.4	24.5	1.1	0.0	73.9	75.0
Malaysia	1383	77.6	77.6	20.0	2.3	0.2	76.5	78.8
Malta	544	79.6	79.6	17.7	2.8	0.0	76.7	82.4
Morocco	1890	52.1	52.1	40.7	7.1	0.0	52.9	51.4
New Zealand	1177	79.4	79.4	16.1	4.2	0.3	79.3	79.6
Norway	669	83.9	83.9	11.9	3.8	0.4	85.7	82.2
Oman	1290	59.2	59.2	34.8	5.8	0.2	61.4	57.1
Qatar	765	68.2	68.2	23.8	8.0	0.0	67.6	68.8
Russian Federation	684	74.2	74.2	20.9	4.5	0.3	74.3	74.1
Saudi Arabia	543	41.2	41.2	50.2	8.6	0.0	37.7	44.7
Singapore	879	88.5	88.5	10.6	0.9	0.0	87.1	89.7
Slovenia	615	72.1	72.1	26.9	1.0	0.0	72.8	71.3
South Africa	1769	57.9	57.9	34.4	7.4	0.3	57.7	58.0
Sweden	579	77.0	77.0	19.8	3.1	0.0	78.8	75.4
Thailand	922	77.7	77.7	17.3	5.0	0.0	77.6	77.8
Turkey	870	85.9	85.9	12.9	1.2	0.0	88.1	84.0
United Arab Emirates	2569	71.9	71.9	23.9	4.1	0.0	71.7	72.2
United States	1436	82.5	82.5	15.9	1.4	0.2	83.2	81.7
International Avg (n=39)	36150	72.5	72.5	23.4	4.0	0.1	72.4	72.6
Buenos Aires, Argentina	468	71.2	71.2	12.4	14.7	1.7	67.6	74.6
Ontario, Canada	647	82.7	82.7	15.5	1.8	0.0	81.7	83.7
Quebec, Canada	565	84.6	84.6	13.6	1.1	0.7	81.0	88.9
Norway (8)	683	74.3	74.3	20.6	5.1	0.0	69.5	79.7
Abu Dhabi, UAE	691	71.2	71.2	23.3	5.5	0.0	72.4	70.0
Dubai, UAE	879	83.0	83.0	15.0	1.9	0.1	81.1	85.0
Florida, US	290	80.9	80.9	16.0	3.1	0.0	79.3	82.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_01B (S062189B): Earth Science / Knowing Type: MC Key: B
Label: Benefits of recycling paper: oxygen

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	82.1	15.1	82.1	2.8	0.1	81.7	82.5
Bahrain	710	78.0	17.7	78.0	4.0	0.3	79.6	76.5
Botswana	849	63.2	26.3	63.2	10.5	0.0	67.5	58.5
Canada	1253	85.4	12.3	85.4	2.0	0.2	85.4	85.5
Chile	706	83.2	13.7	83.2	3.0	0.1	78.7	87.0
Chinese Taipei	818	86.8	10.0	86.8	3.2	0.0	86.1	87.5
Egypt	1126	60.6	30.8	60.6	8.6	0.1	60.2	61.0
England	689	81.9	15.3	81.9	2.7	0.1	80.9	83.0
Georgia	571	57.6	35.5	57.6	6.9	0.0	58.3	57.0
Hong Kong SAR	604	86.4	11.5	86.4	2.1	0.0	87.9	85.0
Hungary	703	85.4	13.2	85.4	1.3	0.0	85.4	85.4
Iran, Islamic Rep. of	886	67.7	25.7	67.7	6.6	0.0	70.0	65.6
Ireland	658	86.3	10.8	86.3	2.6	0.2	86.3	86.4
Israel	786	82.1	13.6	82.1	3.9	0.5	83.0	81.2
Italy	647	88.3	10.1	88.3	1.5	0.1	89.5	87.3
Japan	672	89.3	8.8	89.3	1.7	0.1	87.9	90.7
Jordan	1126	62.8	31.3	62.8	5.7	0.2	67.0	59.0
Kazakhstan	700	70.8	24.7	70.8	4.4	0.1	69.2	72.5
Korea, Rep. of	761	86.2	12.5	86.2	1.3	0.0	86.1	86.3
Kuwait	623	69.8	24.7	69.8	5.6	0.0	70.7	69.1
Lebanon	550	53.2	31.0	53.2	14.6	1.2	55.3	50.3
Lithuania	630	72.9	25.5	72.9	1.6	0.0	74.0	71.8
Malaysia	1383	74.9	22.3	74.9	2.7	0.2	75.0	74.7
Malta	544	74.0	22.8	74.0	3.2	0.0	72.9	75.0
Morocco	1889	56.7	36.0	56.7	7.3	0.0	58.3	55.3
New Zealand	1177	74.7	20.1	74.7	4.9	0.3	74.3	75.2
Norway	669	68.0	28.0	68.0	3.6	0.4	62.3	73.5
Oman	1290	74.6	19.5	74.6	5.7	0.2	78.6	70.7
Qatar	765	68.8	23.4	68.8	7.8	0.0	72.2	65.1
Russian Federation	684	79.4	13.2	79.4	7.0	0.3	79.3	79.6
Saudi Arabia	542	63.7	27.6	63.7	8.6	0.0	66.3	61.1
Singapore	879	92.0	6.5	92.0	1.5	0.0	92.6	91.4
Slovenia	615	87.2	11.3	87.2	1.4	0.0	88.6	85.9
South Africa	1769	49.2	44.6	49.2	5.8	0.3	48.3	50.1
Sweden	579	81.8	16.1	81.8	2.1	0.0	84.3	79.7
Thailand	922	74.8	19.2	74.8	6.0	0.0	76.4	73.0
Turkey	870	84.6	13.6	84.6	1.8	0.0	87.8	81.8
United Arab Emirates	2569	76.3	20.2	76.3	3.5	0.0	80.1	72.4
United States	1436	81.5	16.7	81.5	1.6	0.2	81.2	81.8
International Avg (n=39)	36150	75.4	20.0	75.4	4.4	0.1	76.1	74.8
Buenos Aires, Argentina	468	70.7	12.4	70.7	15.2	1.7	70.7	70.4
Ontario, Canada	647	83.2	14.8	83.2	2.0	0.0	82.3	84.2
Quebec, Canada	565	88.7	7.9	88.7	2.6	0.7	87.2	90.5
Norway (8)	683	59.4	36.4	59.4	4.2	0.0	54.5	64.9
Abu Dhabi, UAE	691	72.9	22.4	72.9	4.7	0.0	79.2	66.5
Dubai, UAE	879	83.8	13.7	83.8	2.4	0.1	85.9	81.5
Florida, US	290	80.0	15.9	80.0	4.1	0.0	79.7	80.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_01D (S062189D): Earth Science / Knowing Type: MC Key: A
Label: Benefits of recycling paper: carbon dioxide

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	64.5	64.5	32.1	3.4	0.1	64.3	64.6
Bahrain	710	50.8	50.8	43.5	5.4	0.3	46.7	54.7
Botswana	849	44.9	44.9	44.5	10.6	0.0	42.9	47.1
Canada	1253	60.2	60.2	36.7	2.8	0.2	55.2	65.6
Chile	706	49.7	49.7	46.8	3.5	0.1	46.5	52.3
Chinese Taipei	818	75.0	75.0	22.9	2.2	0.0	75.3	74.6
Egypt	1125	49.1	49.1	40.3	10.5	0.1	48.2	50.1
England	689	64.0	64.0	32.3	3.6	0.1	62.4	65.6
Georgia	571	37.3	37.3	51.3	11.4	0.0	33.9	40.2
Hong Kong SAR	604	66.3	66.3	31.4	2.2	0.0	65.1	67.5
Hungary	703	57.0	57.0	40.8	2.2	0.0	53.3	60.7
Iran, Islamic Rep. of	886	54.0	54.0	38.5	7.5	0.0	55.9	52.4
Ireland	658	72.6	72.6	24.3	2.9	0.2	72.4	72.9
Israel	786	54.9	54.9	40.2	4.4	0.5	53.8	56.1
Italy	647	59.3	59.3	34.4	6.2	0.1	58.7	59.7
Japan	672	68.4	68.4	29.7	1.7	0.1	68.3	68.6
Jordan	1126	48.5	48.5	46.7	4.7	0.2	51.1	46.1
Kazakhstan	700	53.0	53.0	41.1	5.9	0.1	53.3	52.7
Korea, Rep. of	761	81.8	81.8	16.7	1.5	0.0	81.6	82.1
Kuwait	623	50.0	50.0	43.1	6.9	0.0	49.7	50.5
Lebanon	550	44.3	44.3	39.2	15.3	1.2	42.8	46.5
Lithuania	630	48.8	48.8	48.3	2.9	0.0	42.5	55.0
Malaysia	1383	61.5	61.5	34.1	4.2	0.2	60.5	62.6
Malta	544	59.2	59.2	36.6	4.2	0.0	54.9	63.4
Morocco	1889	49.4	49.4	41.6	9.0	0.0	47.7	50.9
New Zealand	1177	55.7	55.7	39.4	4.6	0.3	54.2	57.5
Norway	669	65.5	65.5	29.7	4.4	0.4	63.4	67.6
Oman	1290	50.0	50.0	43.0	6.7	0.2	52.1	48.0
Qatar	765	52.4	52.4	39.1	8.5	0.0	51.6	53.1
Russian Federation	684	50.0	50.0	43.4	6.3	0.3	51.5	48.7
Saudi Arabia	543	41.5	41.5	50.1	8.4	0.0	44.9	38.0
Singapore	879	68.5	68.5	30.0	1.6	0.0	65.1	71.5
Slovenia	615	54.6	54.6	43.1	2.4	0.0	55.2	54.0
South Africa	1769	49.7	49.7	43.1	6.9	0.3	50.2	49.2
Sweden	579	67.1	67.1	30.9	1.9	0.0	69.2	65.4
Thailand	922	65.5	65.5	29.4	5.1	0.0	65.8	65.2
Turkey	870	64.9	64.9	32.0	3.2	0.0	63.2	66.4
United Arab Emirates	2569	56.6	56.6	39.2	4.2	0.0	56.2	57.0
United States	1436	57.6	57.6	40.0	2.2	0.2	54.1	61.4
International Avg (n=39)	36150	57.0	57.0	37.7	5.2	0.1	56.0	58.1
Buenos Aires, Argentina	468	42.1	42.1	37.6	18.6	1.7	38.1	45.1
Ontario, Canada	647	63.0	63.0	34.4	2.6	0.0	57.9	67.9
Quebec, Canada	565	56.0	56.0	39.9	3.4	0.7	51.0	62.0
Norway (8)	683	55.8	55.8	38.5	5.8	0.0	55.3	56.2
Abu Dhabi, UAE	691	57.6	57.6	37.1	5.3	0.0	58.5	56.6
Dubai, UAE	879	59.2	59.2	38.3	2.5	0.1	57.9	60.5
Florida, US	290	56.8	56.8	39.3	3.9	0.0	55.8	57.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_01E (S062189E): Earth Science / Knowing Type: MC Key: A
Label: Benefits of recycling paper: garbage

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	85.4	85.4	9.4	5.1	0.1	86.8	84.2
Bahrain	710	74.2	74.2	21.5	4.0	0.3	81.2	67.6
Botswana	849	61.8	61.8	29.5	8.8	0.0	66.6	56.5
Canada	1253	88.6	88.6	9.6	1.6	0.2	90.4	86.7
Chile	706	81.6	81.6	16.3	2.0	0.1	78.5	84.3
Chinese Taipei	818	86.5	86.5	12.1	1.4	0.0	88.2	84.9
Egypt	1126	55.5	55.5	34.1	10.4	0.1	57.8	53.0
England	689	86.9	86.9	10.5	2.5	0.1	89.2	84.6
Georgia	571	51.9	51.9	38.4	9.7	0.0	52.0	51.8
Hong Kong SAR	604	81.0	81.0	17.4	1.6	0.0	82.3	79.8
Hungary	703	84.2	84.2	14.5	1.3	0.0	84.9	83.6
Iran, Islamic Rep. of	886	72.1	72.1	23.1	4.7	0.0	76.7	68.1
Ireland	658	87.4	87.4	10.7	1.7	0.2	87.7	87.1
Israel	786	73.4	73.4	22.6	3.5	0.5	76.4	70.5
Italy	647	83.2	83.2	14.2	2.5	0.1	84.8	81.8
Japan	672	87.8	87.8	10.6	1.5	0.1	86.8	88.8
Jordan	1126	72.4	72.4	22.9	4.5	0.2	79.2	66.3
Kazakhstan	700	73.0	73.0	22.4	4.6	0.1	76.4	69.4
Korea, Rep. of	761	89.6	89.6	9.0	1.3	0.0	91.2	88.3
Kuwait	623	68.6	68.6	24.7	6.8	0.0	72.9	64.1
Lebanon	550	65.9	65.9	18.9	14.1	1.2	66.0	65.7
Lithuania	630	74.6	74.6	23.8	1.7	0.0	77.5	71.7
Malaysia	1383	80.9	80.9	16.1	2.9	0.2	80.2	81.6
Malta	544	71.3	71.3	25.4	3.3	0.0	71.4	71.2
Morocco	1889	61.1	61.1	32.4	6.5	0.0	63.1	59.4
New Zealand	1177	83.0	83.0	14.0	2.7	0.3	83.3	82.7
Norway	669	78.8	78.8	16.0	4.8	0.4	79.4	78.3
Oman	1290	69.0	69.0	25.0	5.7	0.2	73.2	65.0
Qatar	765	68.1	68.1	23.8	8.2	0.0	71.7	64.2
Russian Federation	684	80.4	80.4	15.1	4.2	0.3	82.7	78.4
Saudi Arabia	542	75.3	75.3	18.7	6.1	0.0	80.9	69.5
Singapore	879	86.6	86.6	11.8	1.6	0.0	86.2	86.9
Slovenia	615	87.7	87.7	11.1	1.2	0.0	87.6	87.8
South Africa	1769	56.9	56.9	36.3	6.4	0.3	57.7	56.1
Sweden	579	72.7	72.7	22.3	5.0	0.0	73.3	72.1
Thailand	922	87.7	87.7	8.0	4.3	0.0	89.9	85.2
Turkey	870	80.9	80.9	16.8	2.4	0.0	81.3	80.5
United Arab Emirates	2569	75.8	75.8	20.6	3.5	0.0	78.4	73.2
United States	1436	88.6	88.6	9.7	1.5	0.2	89.0	88.1
International Avg (n=39)	36150	76.7	76.7	19.0	4.2	0.1	78.5	74.8
Buenos Aires, Argentina	468	71.1	71.1	12.1	15.2	1.7	76.1	66.1
Ontario, Canada	647	88.1	88.1	10.3	1.6	0.0	89.1	87.1
Quebec, Canada	565	89.3	89.3	7.9	2.0	0.7	91.0	87.4
Norway (8)	683	74.0	74.0	21.4	4.6	0.0	72.3	75.9
Abu Dhabi, UAE	691	74.2	74.2	20.9	4.9	0.0	77.9	70.5
Dubai, UAE	879	80.1	80.1	17.9	1.9	0.1	83.4	76.5
Florida, US	290	83.3	83.3	13.9	2.8	0.0	78.7	86.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_02 (S062094): Biology / Knowing Type: MC Key: B
Label: Classify animal with these features

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	62.3	8.9	62.3	12.2	13.2	3.4	0.1	61.9	62.7
Bahrain	710	52.6	7.6	52.6	11.7	25.4	2.3	0.3	54.3	51.1
Botswana	849	19.6	14.4	19.6	14.9	50.7	0.4	0.0	20.5	18.7
Canada	1248	54.3	9.7	54.3	12.2	22.3	1.0	0.5	54.5	54.1
Chile	706	49.0	14.1	49.0	16.5	18.9	1.4	0.1	45.2	52.2
Chinese Taipei	818	65.1	8.8	65.1	6.9	18.5	0.6	0.0	60.8	69.1
Egypt	1126	28.6	13.2	28.6	21.4	33.5	3.1	0.1	27.6	29.6
England	689	52.2	7.0	52.2	15.5	23.8	1.3	0.2	50.8	53.6
Georgia	571	38.0	6.3	38.0	3.7	50.5	1.6	0.0	43.3	33.5
Hong Kong SAR	604	64.6	11.1	64.6	9.3	13.5	1.6	0.0	62.2	66.7
Hungary	703	76.0	2.2	76.0	16.2	2.8	2.8	0.0	75.8	76.3
Iran, Islamic Rep. of	886	59.5	8.4	59.5	12.7	17.8	1.6	0.0	62.0	57.3
Ireland	658	47.6	11.2	47.6	14.9	24.7	1.4	0.2	48.7	46.5
Israel	786	60.9	9.9	60.9	11.8	15.6	1.1	0.6	60.0	61.9
Italy	647	63.7	9.9	63.7	8.1	17.4	0.7	0.1	65.3	62.4
Japan	672	79.0	2.7	79.0	10.3	5.5	2.4	0.1	75.3	82.7
Jordan	1126	38.9	12.1	38.9	16.6	28.1	4.1	0.3	41.6	36.4
Kazakhstan	700	49.2	16.0	49.2	15.7	17.6	1.4	0.1	47.2	51.4
Korea, Rep. of	761	26.7	10.5	26.7	17.6	44.2	0.9	0.0	22.6	30.4
Kuwait	623	41.6	14.3	41.6	11.1	28.7	4.3	0.0	40.3	43.2
Lebanon	536	21.2	14.6	21.2	11.1	43.8	7.4	1.9	22.1	20.0
Lithuania	630	65.7	9.7	65.7	11.1	11.4	2.1	0.0	70.4	61.0
Malaysia	1383	56.8	11.4	56.8	16.3	14.1	1.2	0.2	60.3	52.9
Malta	544	38.7	13.6	38.7	16.0	29.4	2.1	0.2	35.7	41.5
Morocco	1890	31.6	14.5	31.6	24.6	25.7	3.6	0.0	31.2	32.1
New Zealand	1177	56.6	9.8	56.6	15.3	16.5	1.4	0.3	55.0	58.6
Norway	669	44.2	11.4	44.2	17.5	24.9	1.3	0.6	37.9	50.3
Oman	1290	47.7	9.6	47.7	17.6	23.5	1.3	0.2	51.4	44.3
Qatar	764	43.9	9.7	43.9	13.0	30.7	2.7	0.0	46.1	41.4
Russian Federation	685	66.7	7.7	66.7	15.9	7.1	2.2	0.3	61.3	71.5
Saudi Arabia	543	38.0	16.8	38.0	19.0	24.4	1.8	0.0	38.1	38.0
Singapore	879	75.3	4.5	75.3	11.1	8.8	0.3	0.0	74.9	75.7
Slovenia	615	81.0	4.9	81.0	5.2	8.3	0.6	0.0	82.6	79.5
South Africa	1769	19.6	24.0	19.6	13.1	40.0	3.0	0.3	20.7	18.5
Sweden	579	34.9	20.0	34.9	17.1	22.5	5.4	0.1	32.4	37.2
Thailand	921	54.4	18.6	54.4	12.6	12.6	1.8	0.0	55.1	53.6
Turkey	870	25.7	14.0	25.7	28.7	31.2	0.4	0.0	28.7	22.9
United Arab Emirates	2569	54.5	9.2	54.5	11.0	23.2	2.0	0.0	54.8	54.1
United States	1436	65.3	5.7	65.3	10.4	17.5	0.9	0.2	63.7	67.0
International Avg (n=39)	36132	50.0	11.0	50.0	14.0	22.8	2.0	0.2	49.8	50.3
Buenos Aires, Argentina	468	45.1	15.1	45.1	12.5	18.2	6.5	2.6	45.4	45.3
Ontario, Canada	644	57.6	6.7	57.6	12.1	22.4	1.1	0.1	57.1	58.0
Quebec, Canada	563	49.3	15.8	49.3	11.5	21.2	0.8	1.4	49.9	48.6
Norway (8)	683	38.0	13.2	38.0	17.5	28.1	3.2	0.0	37.8	38.3
Abu Dhabi, UAE	691	49.0	11.0	49.0	12.1	25.7	2.2	0.0	52.2	45.7
Dubai, UAE	879	61.3	7.0	61.3	10.1	19.8	1.6	0.1	60.7	62.0
Florida, US	290	64.5	9.1	64.5	11.5	13.3	1.6	0.0	56.3	70.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_03 (S062118): Biology / Applying Type: CR 1 Point
Label: Mice living on beach advantage

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	70.6	24.5	70.6	4.8	0.1	71.2	70.1
Bahrain	710	42.9	43.4	42.9	13.4	0.3	48.2	37.9
Botswana	849	12.3	77.5	12.3	10.3	0.0	12.5	12.1
Canada	1253	76.5	20.3	76.5	2.7	0.5	78.3	74.6
Chile	706	66.6	20.7	66.6	12.6	0.1	61.7	70.5
Chinese Taipei	818	73.2	22.3	73.2	4.5	0.0	73.4	73.0
Egypt	1126	13.4	59.1	13.4	27.5	0.1	14.4	12.2
England	689	82.5	14.7	82.5	2.6	0.2	81.5	83.4
Georgia	571	38.4	36.4	38.4	25.2	0.0	35.2	41.2
Hong Kong SAR	604	54.8	39.3	54.8	5.8	0.0	57.4	52.5
Hungary	703	77.3	16.7	77.3	5.4	0.5	76.9	77.8
Iran, Islamic Rep. of	886	29.8	57.9	29.8	12.3	0.0	26.0	33.2
Ireland	658	76.8	20.6	76.8	2.3	0.2	76.3	77.3
Israel	786	51.2	36.6	51.2	11.5	0.6	55.1	47.3
Italy	646	59.9	30.8	59.9	9.1	0.1	62.9	57.4
Japan	672	79.8	15.7	79.8	4.4	0.1	82.5	77.2
Jordan	1126	14.0	69.1	14.0	16.6	0.3	14.6	13.6
Kazakhstan	700	52.8	36.3	52.8	10.8	0.1	54.5	51.1
Korea, Rep. of	761	56.5	38.2	56.5	5.3	0.0	56.7	56.4
Kuwait	623	27.3	46.8	27.3	25.7	0.2	34.6	20.0
Lebanon	549	8.1	49.2	8.1	40.6	2.2	8.1	8.0
Lithuania	630	72.0	20.5	72.0	7.5	0.0	73.1	70.9
Malaysia	1383	16.5	70.5	16.5	12.8	0.2	14.3	19.1
Malta	544	56.4	33.3	56.4	10.1	0.2	58.3	54.5
Morocco	1889	14.6	55.6	14.6	29.8	0.1	14.8	14.4
New Zealand	1177	73.0	22.4	73.0	4.3	0.3	72.5	73.5
Norway	669	80.0	16.4	80.0	3.1	0.6	81.2	78.8
Oman	1289	42.8	49.3	42.8	7.6	0.2	48.7	37.2
Qatar	765	31.1	52.6	31.1	16.3	0.0	30.9	31.4
Russian Federation	685	79.5	12.2	79.5	8.1	0.3	75.9	82.6
Saudi Arabia	542	16.3	63.6	16.3	20.1	0.0	18.6	13.8
Singapore	879	62.6	35.3	62.6	2.1	0.0	62.1	63.0
Slovenia	615	69.3	25.3	69.3	5.3	0.0	69.4	69.2
South Africa	1769	13.1	75.2	13.1	11.3	0.3	12.9	13.4
Sweden	579	75.9	18.3	75.9	5.4	0.4	75.6	76.1
Thailand	922	35.9	44.5	35.9	19.6	0.0	36.5	35.1
Turkey	870	73.4	20.4	73.4	6.2	0.0	74.7	72.3
United Arab Emirates	2569	39.7	48.2	39.7	12.1	0.1	43.9	35.3
United States	1436	82.2	16.3	82.2	1.3	0.2	81.8	82.5
International Avg (n=39)	36148	51.3	37.3	51.3	11.2	0.2	52.0	50.5
Buenos Aires, Argentina	468	49.4	24.6	49.4	22.8	3.1	45.6	52.7
Ontario, Canada	647	77.5	19.8	77.5	2.6	0.1	80.0	75.0
Quebec, Canada	565	71.0	24.1	71.0	3.4	1.4	71.3	70.8
Norway (8)	683	79.3	17.6	79.3	3.1	0.0	79.1	79.6
Abu Dhabi, UAE	691	38.9	49.0	38.9	12.0	0.1	47.1	30.6
Dubai, UAE	879	53.6	38.9	53.6	7.4	0.1	56.9	50.0
Florida, US	290	71.8	25.7	71.8	2.4	0.0	67.1	75.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_04A (S062103A): Biology / Reasoning Type: MC Key: C
Label: Photosynthesis and sunlight

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	49.4	9.2	33.2	49.4	3.9	4.2	0.1	47.1	51.7
Bahrain	710	50.3	8.6	32.3	50.3	4.6	4.0	0.3	53.2	47.5
Botswana	849	40.6	9.9	44.4	40.6	3.6	1.6	0.0	41.9	39.1
Canada	1250	53.1	8.3	33.0	53.1	2.4	2.7	0.5	47.8	58.7
Chile	706	38.0	15.1	35.7	38.0	4.0	7.1	0.1	34.3	41.1
Chinese Taipei	818	63.9	11.7	20.1	63.9	2.7	1.6	0.0	59.8	67.7
Egypt	1126	41.6	13.8	33.9	41.6	4.5	6.0	0.2	41.8	41.3
England	689	56.0	6.7	27.4	56.0	2.8	7.0	0.2	53.1	58.8
Georgia	571	47.1	8.7	33.1	47.1	4.4	6.5	0.2	43.7	50.0
Hong Kong SAR	604	68.6	6.5	20.4	68.6	2.4	2.1	0.0	66.4	70.5
Hungary	703	62.3	6.1	24.7	62.3	3.9	2.5	0.5	54.9	69.9
Iran, Islamic Rep. of	886	43.7	13.4	34.4	43.7	3.3	5.2	0.0	45.8	41.8
Ireland	658	54.6	7.4	31.7	54.6	2.9	3.1	0.2	54.1	55.2
Israel	786	50.6	9.4	28.8	50.6	3.3	7.2	0.7	47.0	54.2
Italy	647	48.7	9.0	34.9	48.7	2.4	4.9	0.1	48.6	48.8
Japan	672	73.9	3.7	17.5	73.9	0.7	4.1	0.1	74.8	73.0
Jordan	1126	41.7	12.1	35.2	41.7	6.3	4.3	0.3	43.9	39.7
Kazakhstan	700	52.4	14.9	21.8	52.4	6.3	4.5	0.2	55.4	49.2
Korea, Rep. of	761	70.3	2.8	25.4	70.3	1.3	0.2	0.0	68.1	72.4
Kuwait	623	41.3	17.9	29.1	41.3	3.2	8.1	0.5	44.8	37.9
Lebanon	531	34.0	9.1	27.5	34.0	3.9	22.7	2.9	32.1	36.4
Lithuania	630	59.4	9.2	24.9	59.4	4.6	1.8	0.0	59.6	59.3
Malaysia	1383	52.3	10.1	32.2	52.3	3.9	1.4	0.2	50.6	54.2
Malta	544	42.0	11.9	36.6	42.0	5.1	4.2	0.2	42.0	42.0
Morocco	1890	34.8	15.2	34.2	34.8	7.9	7.7	0.1	34.2	35.3
New Zealand	1177	51.3	8.4	30.1	51.3	4.7	4.9	0.6	49.8	53.2
Norway	669	51.2	6.9	27.2	51.2	4.4	9.4	0.9	47.3	55.0
Oman	1290	49.3	10.2	32.1	49.3	4.9	3.2	0.2	55.2	43.8
Qatar	765	50.5	10.6	30.1	50.5	3.0	5.8	0.0	49.9	51.0
Russian Federation	685	58.1	5.9	25.0	58.1	2.7	8.0	0.3	55.3	60.7
Saudi Arabia	538	43.4	15.3	31.9	43.4	5.5	3.8	0.0	51.6	35.0
Singapore	879	77.7	5.8	14.9	77.7	1.4	0.2	0.0	78.3	77.2
Slovenia	615	63.4	6.8	22.0	63.4	2.8	5.0	0.0	61.8	64.9
South Africa	1769	29.4	19.4	40.7	29.4	4.6	5.4	0.4	27.4	31.5
Sweden	578	57.4	5.3	24.6	57.4	2.6	9.5	0.6	59.5	55.7
Thailand	922	42.3	14.1	34.8	42.3	3.8	4.9	0.0	43.5	40.9
Turkey	870	54.3	12.1	27.6	54.3	4.5	1.4	0.0	55.3	53.5
United Arab Emirates	2569	53.6	9.9	30.2	53.6	3.8	2.3	0.1	53.5	53.6
United States	1436	52.6	10.5	30.4	52.6	4.8	1.3	0.3	51.9	53.3
International Avg (n=39)	36125	51.4	10.1	29.6	51.4	3.8	4.9	0.3	50.9	51.9
Buenos Aires, Argentina	468	23.0	8.2	24.8	23.0	5.0	34.5	4.5	22.1	23.8
Ontario, Canada	645	54.1	7.8	32.4	54.1	2.7	2.9	0.1	50.8	57.4
Quebec, Canada	564	50.6	8.8	33.8	50.6	2.6	2.8	1.4	44.7	57.6
Norway (8)	683	41.1	11.4	33.5	41.1	5.6	8.5	0.0	39.6	42.7
Abu Dhabi, UAE	691	52.1	12.0	29.9	52.1	4.0	1.8	0.1	53.9	50.2
Dubai, UAE	879	58.9	8.6	26.3	58.9	3.1	3.0	0.1	57.4	60.6
Florida, US	290	52.1	10.3	29.9	52.1	6.5	1.2	0.0	45.3	57.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_04B (S062103B): Biology / Reasoning Type: CR 2 Points
Label: Photosynthesis factors

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	13.3	26.8	35.2	40.1	13.3	24.7	0.1	16.0	10.7
Bahrain	710	17.7	36.2	21.6	53.9	17.7	23.9	0.5	26.3	9.6
Botswana	849	6.6	14.7	65.6	21.3	6.6	13.1	0.0	6.8	6.3
Canada	1253	12.1	33.3	31.9	45.4	12.1	22.0	0.7	12.2	11.9
Chile	706	3.6	11.4	34.9	14.9	3.6	50.1	0.1	4.1	3.2
Chinese Taipei	818	15.4	28.2	37.6	43.6	15.4	18.8	0.0	15.3	15.4
Egypt	1126	1.0	11.2	51.6	12.2	1.0	36.1	0.2	0.9	1.1
England	689	37.7	31.7	12.9	69.4	37.7	17.5	0.2	42.3	33.3
Georgia	571	3.6	9.8	23.3	13.4	3.6	62.8	0.5	3.9	3.4
Hong Kong SAR	604	18.1	34.0	33.0	52.1	18.1	14.8	0.0	16.3	19.8
Hungary	703	12.0	20.8	30.5	32.7	12.0	36.3	0.5	9.7	14.2
Iran, Islamic Rep. of	886	4.1	26.0	18.0	30.1	4.1	51.6	0.3	3.6	4.6
Ireland	658	14.3	29.1	33.3	43.4	14.3	23.0	0.4	14.0	14.5
Israel	786	17.6	31.8	19.9	49.4	17.6	29.8	0.9	20.3	15.0
Italy	647	5.0	22.2	30.1	27.2	5.0	42.5	0.2	7.9	2.5
Japan	672	17.6	39.4	30.0	57.0	17.6	12.9	0.1	18.7	16.5
Jordan	1126	11.2	26.1	36.7	37.4	11.2	25.6	0.3	17.2	5.8
Kazakhstan	700	21.9	26.9	18.1	48.7	21.9	32.8	0.4	24.8	18.7
Korea, Rep. of	761	24.6	36.3	27.5	60.9	24.6	11.6	0.0	25.4	23.9
Kuwait	623	17.6	24.6	19.1	42.2	17.6	37.4	1.3	21.3	14.1
Lebanon	550	2.0	6.1	31.1	8.1	2.0	57.9	2.9	2.8	1.0
Lithuania	630	6.4	12.5	24.9	18.9	6.4	56.3	0.0	5.9	6.8
Malaysia	1383	2.5	20.9	50.4	23.4	2.5	26.0	0.2	2.0	3.1
Malta	544	11.0	18.0	33.8	29.1	11.0	36.9	0.2	12.1	10.0
Morocco	1890	2.9	19.5	31.7	22.4	2.9	45.7	0.1	4.9	1.2
New Zealand	1177	13.9	27.9	35.1	41.8	13.9	22.5	0.7	13.7	14.2
Norway	669	13.9	26.7	23.3	40.7	13.9	35.0	1.0	11.7	16.1
Oman	1249	11.1	33.3	37.3	44.4	11.1	17.9	0.3	13.8	8.6
Qatar	765	9.8	30.9	28.4	40.7	9.8	30.7	0.2	10.5	9.1
Russian Federation	685	16.2	26.7	15.3	42.9	16.2	41.5	0.3	18.3	14.3
Saudi Arabia	543	16.2	20.0	29.9	36.2	16.2	33.9	0.0	22.4	9.9
Singapore	879	44.2	34.5	16.3	78.7	44.2	5.0	0.0	43.3	45.0
Slovenia	613	23.8	22.4	24.3	46.1	23.8	29.6	0.0	22.9	24.6
South Africa	1769	4.5	11.5	66.5	16.0	4.5	16.9	0.5	4.3	4.8
Sweden	578	11.3	26.0	27.0	37.3	11.3	35.0	0.7	12.3	10.5
Thailand	922	2.9	10.2	52.3	13.1	2.9	34.5	0.1	3.0	2.7
Turkey	870	11.3	24.9	36.0	36.2	11.3	27.8	0.0	14.7	8.4
United Arab Emirates	2569	16.6	30.8	31.5	47.3	16.6	21.0	0.1	18.6	14.5
United States	1436	11.8	38.1	39.6	49.9	11.8	9.9	0.5	12.7	10.8
International Avg (n=39)	36109	13.0	24.6	31.9	37.7	13.0	30.0	0.4	14.3	11.8
Buenos Aires, Argentina	468	3.8	9.6	12.4	13.4	3.8	67.8	6.3	4.0	3.7
Ontario, Canada	647	13.2	33.3	33.1	46.5	13.2	20.0	0.4	13.3	13.0
Quebec, Canada	565	9.6	31.2	31.0	40.8	9.6	26.7	1.4	9.3	10.1
Norway (8)	683	11.1	17.9	30.2	29.0	11.1	40.9	0.0	11.1	11.1
Abu Dhabi, UAE	691	12.7	32.5	32.4	45.2	12.7	22.3	0.1	16.4	8.8
Dubai, UAE	879	25.6	31.9	25.2	57.5	25.6	17.2	0.1	26.6	24.5
Florida, US	290	9.9	28.6	44.1	38.4	9.9	17.5	0.0	8.7	10.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_05 (S062010): Chemistry / Knowing Type: CR 1 Point
Label: Physical or chemical property (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	35.3	62.3	35.3	2.4	0.1	34.8	35.7
Bahrain	710	29.3	68.7	29.3	1.4	0.5	35.5	23.4
Botswana	849	31.7	65.6	31.7	2.6	0.0	35.6	27.6
Canada	1251	33.3	65.3	33.3	0.7	0.7	32.4	34.3
Chile	706	21.2	76.3	21.2	2.1	0.5	19.9	22.2
Chinese Taipei	818	32.1	67.8	32.1	0.1	0.0	28.6	35.3
Egypt	1126	25.8	67.6	25.8	6.4	0.2	26.0	25.5
England	689	46.3	50.9	46.3	2.3	0.5	43.1	49.4
Georgia	571	53.7	43.0	53.7	2.5	0.8	60.1	48.2
Hong Kong SAR	604	36.0	63.2	36.0	0.8	0.0	33.8	38.0
Hungary	703	49.2	50.0	49.2	0.2	0.5	46.0	52.5
Iran, Islamic Rep. of	886	20.2	78.8	20.2	0.7	0.3	21.9	18.6
Ireland	658	41.1	58.0	41.1	0.5	0.4	41.3	41.0
Israel	786	30.4	65.9	30.4	2.7	0.9	31.8	29.0
Italy	647	32.3	67.2	32.3	0.2	0.2	31.6	32.9
Japan	672	44.9	54.3	44.9	0.7	0.1	45.8	44.1
Jordan	1126	27.7	69.9	27.7	2.1	0.3	33.3	22.5
Kazakhstan	700	73.1	26.0	73.1	0.5	0.4	76.1	69.9
Korea, Rep. of	761	38.9	60.9	38.9	0.2	0.0	38.3	39.4
Kuwait	623	24.3	72.7	24.3	1.4	1.6	30.0	18.8
Lebanon	539	30.8	62.1	30.8	4.1	3.0	32.6	28.5
Lithuania	630	50.8	48.7	50.8	0.5	0.0	44.7	56.8
Malaysia	1383	27.4	71.3	27.4	0.8	0.4	27.6	27.2
Malta	544	27.5	71.0	27.5	1.2	0.2	27.3	27.7
Morocco	1890	27.3	71.2	27.3	1.4	0.1	31.5	23.7
New Zealand	1177	32.1	64.8	32.1	2.3	0.7	31.6	32.8
Norway	668	26.8	70.5	26.8	1.7	1.0	22.6	30.9
Oman	1289	29.1	68.7	29.1	2.0	0.3	31.0	27.2
Qatar	765	30.8	62.2	30.8	6.9	0.2	33.6	27.8
Russian Federation	685	78.0	20.6	78.0	1.1	0.3	80.8	75.5
Saudi Arabia	541	21.5	76.2	21.5	2.3	0.0	25.3	17.6
Singapore	879	51.8	48.1	51.8	0.1	0.0	50.0	53.5
Slovenia	613	41.2	58.5	41.2	0.3	0.0	37.9	44.2
South Africa	1769	21.4	75.4	21.4	2.5	0.7	22.2	20.5
Sweden	579	35.5	62.5	35.5	1.3	0.7	30.5	39.8
Thailand	918	27.9	70.0	27.9	2.0	0.1	27.8	27.9
Turkey	870	28.1	71.5	28.1	0.4	0.0	32.2	24.5
United Arab Emirates	2569	35.3	62.9	35.3	1.7	0.1	40.9	29.5
United States	1436	38.6	60.5	38.6	0.3	0.6	38.2	39.1
International Avg (n=39)	36130	35.6	62.3	35.6	1.6	0.4	36.3	35.0
Buenos Aires, Argentina	468	19.1	63.3	19.1	11.3	6.3	18.8	19.2
Ontario, Canada	645	33.4	65.1	33.4	1.1	0.4	32.5	34.3
Quebec, Canada	565	34.3	64.1	34.3	0.1	1.4	28.9	40.8
Norway (8)	683	24.0	73.2	24.0	2.8	0.0	26.4	21.3
Abu Dhabi, UAE	691	30.5	66.8	30.5	2.6	0.1	39.0	21.7
Dubai, UAE	879	46.7	52.0	46.7	1.2	0.1	47.5	45.8
Florida, US	290	40.4	58.8	40.4	0.8	0.0	35.0	44.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_05A (S062010A): Chemistry / Knowing Type: MC Key: B
Label: Physical or chemical property: reactivity

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	61.0	35.2	61.0	3.8	0.1	59.9	62.0
Bahrain	710	50.6	46.2	50.6	2.6	0.5	56.4	45.1
Botswana	849	46.9	41.8	46.9	11.3	0.0	49.5	44.1
Canada	1252	52.9	45.1	52.9	1.3	0.7	51.3	54.5
Chile	706	52.8	42.7	52.8	4.0	0.5	53.0	52.7
Chinese Taipei	818	49.2	50.2	49.2	0.6	0.0	47.4	50.9
Egypt	1126	52.3	37.6	52.3	9.9	0.2	53.9	50.5
England	689	74.2	22.3	74.2	3.0	0.5	70.2	78.0
Georgia	571	71.2	23.2	71.2	4.8	0.8	78.8	64.7
Hong Kong SAR	604	58.6	40.2	58.6	1.1	0.0	58.7	58.5
Hungary	703	86.7	11.4	86.7	1.3	0.5	89.5	83.9
Iran, Islamic Rep. of	886	33.1	65.3	33.1	1.3	0.3	31.6	34.5
Ireland	658	64.7	34.0	64.7	1.0	0.4	62.2	67.2
Israel	786	60.5	35.0	60.5	3.6	0.9	61.5	59.4
Italy	647	52.1	42.9	52.1	4.7	0.2	54.3	50.3
Japan	672	72.0	26.6	72.0	1.2	0.1	76.8	67.3
Jordan	1126	53.8	42.1	53.8	3.8	0.3	57.4	50.5
Kazakhstan	700	89.5	8.0	89.5	2.1	0.4	91.6	87.2
Korea, Rep. of	761	52.6	46.1	52.6	1.3	0.0	48.4	56.3
Kuwait	623	51.7	45.4	51.7	1.4	1.6	59.5	43.9
Lebanon	544	57.4	31.6	57.4	8.1	2.9	58.7	55.7
Lithuania	630	84.1	14.8	84.1	1.1	0.0	82.7	85.4
Malaysia	1383	40.7	55.7	40.7	3.2	0.4	40.1	41.3
Malta	544	54.4	42.6	54.4	2.8	0.2	53.3	55.5
Morocco	1890	49.1	47.7	49.1	3.0	0.1	51.1	47.4
New Zealand	1177	56.8	39.0	56.8	3.4	0.7	53.8	60.4
Norway	668	68.0	28.3	68.0	2.6	1.0	62.3	73.6
Oman	1289	54.5	40.9	54.5	4.3	0.3	57.4	51.7
Qatar	765	52.0	40.2	52.0	7.6	0.2	55.7	48.0
Russian Federation	685	86.5	11.3	86.5	1.9	0.3	89.3	84.0
Saudi Arabia	542	50.8	44.9	50.8	4.3	0.0	55.8	45.5
Singapore	879	71.5	28.2	71.5	0.3	0.0	71.6	71.5
Slovenia	613	78.2	21.4	78.2	0.3	0.0	75.2	81.1
South Africa	1770	45.5	49.3	45.5	4.5	0.7	46.6	44.2
Sweden	579	63.7	32.8	63.7	2.8	0.7	61.4	65.7
Thailand	921	46.7	49.1	46.7	4.1	0.1	47.5	45.8
Turkey	870	59.0	39.9	59.0	1.1	0.0	64.6	54.1
United Arab Emirates	2569	60.3	35.0	60.3	4.6	0.1	66.9	53.5
United States	1436	65.2	33.5	65.2	0.7	0.6	64.2	66.2
International Avg (n=39)	36141	59.8	36.6	59.8	3.2	0.4	60.8	58.8
Buenos Aires, Argentina	468	42.8	37.3	42.8	13.6	6.3	45.3	40.2
Ontario, Canada	646	52.3	45.4	52.3	1.9	0.4	50.3	54.3
Quebec, Canada	565	57.5	40.4	57.5	0.6	1.4	52.9	63.0
Norway (8)	683	62.9	32.3	62.9	4.8	0.0	64.7	60.8
Abu Dhabi, UAE	691	54.5	38.5	54.5	6.8	0.1	63.2	45.7
Dubai, UAE	879	71.7	25.9	71.7	2.3	0.1	74.3	68.9
Florida, US	290	62.2	36.3	62.2	1.5	0.0	58.7	64.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_05B (S062010B): Chemistry / Knowing Type: MC Key: A
Label: Physical or chemical property: boiling pt

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	61.0	61.0	35.3	3.6	0.1	62.4	59.6
Bahrain	710	60.5	60.5	36.4	2.6	0.5	65.6	55.6
Botswana	849	58.8	58.8	30.6	10.6	0.0	60.3	57.1
Canada	1253	58.1	58.1	40.0	1.2	0.7	60.9	55.1
Chile	706	45.6	45.6	49.4	4.6	0.5	46.9	44.5
Chinese Taipei	818	80.2	80.2	19.3	0.5	0.0	76.2	83.9
Egypt	1126	54.5	54.5	33.3	12.0	0.2	55.5	53.5
England	689	64.9	64.9	31.1	3.5	0.5	66.3	63.7
Georgia	571	72.1	72.1	21.5	5.7	0.8	78.1	67.0
Hong Kong SAR	604	61.0	61.0	37.7	1.3	0.0	62.7	59.5
Hungary	703	69.3	69.3	29.3	0.9	0.5	67.9	70.9
Iran, Islamic Rep. of	886	50.3	50.3	46.9	2.5	0.3	53.3	47.6
Ireland	658	62.3	62.3	36.1	1.2	0.4	65.9	58.6
Israel	786	58.7	58.7	36.7	3.7	0.9	60.9	56.6
Italy	647	51.7	51.7	46.3	1.7	0.2	51.7	51.8
Japan	672	62.9	62.9	35.9	1.1	0.1	65.1	60.7
Jordan	1126	58.6	58.6	36.9	4.1	0.3	61.3	56.2
Kazakhstan	700	87.7	87.7	9.5	2.4	0.4	89.5	85.8
Korea, Rep. of	761	65.0	65.0	33.5	1.5	0.0	66.0	64.2
Kuwait	623	56.7	56.7	39.2	2.6	1.6	60.9	52.6
Lebanon	544	47.8	47.8	43.5	5.7	2.9	50.1	44.8
Lithuania	630	66.4	66.4	32.7	0.9	0.0	61.0	71.6
Malaysia	1383	71.7	71.7	26.1	1.8	0.4	74.2	68.9
Malta	544	54.7	54.7	42.3	2.9	0.2	57.0	52.4
Morocco	1890	56.3	56.3	39.1	4.4	0.1	59.3	53.9
New Zealand	1177	62.3	62.3	34.1	2.9	0.7	63.8	60.6
Norway	669	55.3	55.3	41.4	2.3	1.0	50.1	60.3
Oman	1290	61.9	61.9	32.4	5.4	0.3	67.6	56.6
Qatar	765	56.3	56.3	35.8	7.7	0.2	60.5	51.8
Russian Federation	685	89.4	89.4	8.5	1.8	0.3	92.1	87.0
Saudi Arabia	543	51.0	51.0	43.9	5.1	0.0	53.9	47.9
Singapore	879	72.9	72.9	26.4	0.7	0.0	72.7	73.2
Slovenia	613	64.7	64.7	35.0	0.3	0.0	63.8	65.5
South Africa	1769	54.7	54.7	38.5	6.1	0.7	53.7	55.7
Sweden	579	55.6	55.6	39.1	4.5	0.7	54.1	57.1
Thailand	920	57.4	57.4	37.2	5.2	0.1	55.1	60.2
Turkey	870	60.9	60.9	38.1	1.0	0.0	66.0	56.4
United Arab Emirates	2569	63.6	63.6	31.7	4.7	0.1	68.4	58.6
United States	1436	58.7	58.7	40.1	0.6	0.6	59.4	58.0
International Avg (n=39)	36143	61.6	61.6	34.6	3.4	0.4	63.1	60.1
Buenos Aires, Argentina	468	36.8	36.8	41.5	15.4	6.3	35.3	38.2
Ontario, Canada	647	56.5	56.5	41.2	1.9	0.4	57.5	55.6
Quebec, Canada	565	62.4	62.4	36.1	0.1	1.4	62.8	61.9
Norway (8)	683	53.2	53.2	41.7	5.1	0.0	56.4	49.6
Abu Dhabi, UAE	691	57.3	57.3	36.6	6.0	0.1	65.3	49.0
Dubai, UAE	879	72.6	72.6	24.9	2.4	0.1	73.0	72.1
Florida, US	290	61.2	61.2	36.7	2.0	0.0	57.9	63.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_05C (S062010C): Chemistry / Knowing Type: MC Key: B
Label: Physical or chemical property: acidity

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	80.6	15.0	80.6	4.3	0.1	82.0	79.3
Bahrain	710	70.7	26.2	70.7	2.6	0.5	73.9	67.7
Botswana	849	82.4	9.8	82.4	7.8	0.0	86.7	77.8
Canada	1252	85.4	12.9	85.4	1.0	0.7	86.8	83.9
Chile	706	66.6	29.7	66.6	3.3	0.5	61.6	70.7
Chinese Taipei	818	79.1	20.4	79.1	0.5	0.0	74.6	83.3
Egypt	1126	55.3	32.7	55.3	11.8	0.2	53.1	57.6
England	689	83.1	13.1	83.1	3.2	0.5	81.1	85.1
Georgia	571	81.8	11.7	81.8	5.7	0.8	82.7	81.0
Hong Kong SAR	604	84.1	14.8	84.1	1.0	0.0	81.5	86.5
Hungary	703	86.9	10.6	86.9	1.9	0.5	88.9	85.0
Iran, Islamic Rep. of	886	83.6	13.3	83.6	2.7	0.3	88.8	79.0
Ireland	658	85.4	13.1	85.4	1.2	0.4	87.1	83.6
Israel	786	68.8	26.2	68.8	4.1	0.9	70.4	67.1
Italy	647	78.2	20.5	78.2	1.1	0.2	75.4	80.6
Japan	672	75.0	23.2	75.0	1.7	0.1	73.2	76.8
Jordan	1126	63.0	32.0	63.0	4.7	0.3	69.2	57.3
Kazakhstan	700	88.8	8.5	88.8	2.3	0.4	90.4	87.2
Korea, Rep. of	761	84.1	14.6	84.1	1.4	0.0	83.3	84.7
Kuwait	623	64.6	30.6	64.6	3.2	1.6	68.3	61.2
Lebanon	547	73.3	16.6	73.3	7.2	2.9	74.5	71.7
Lithuania	630	87.2	11.9	87.2	1.0	0.0	85.4	89.0
Malaysia	1383	81.2	16.0	81.2	2.4	0.4	84.3	77.8
Malta	544	74.7	21.8	74.7	3.4	0.2	76.4	73.0
Morocco	1890	69.8	26.2	69.8	3.9	0.1	69.8	69.8
New Zealand	1177	79.8	16.2	79.8	3.2	0.7	80.9	78.6
Norway	669	58.7	37.5	58.7	2.8	1.0	56.0	61.3
Oman	1289	66.2	28.9	66.2	4.6	0.3	69.6	62.9
Qatar	765	71.6	20.3	71.6	7.9	0.2	76.7	66.1
Russian Federation	685	94.6	3.1	94.6	2.0	0.3	94.9	94.4
Saudi Arabia	542	54.1	40.1	54.1	5.8	0.0	57.6	50.5
Singapore	879	89.7	9.9	89.7	0.4	0.0	89.8	89.6
Slovenia	613	73.6	25.5	73.6	0.8	0.0	70.9	76.2
South Africa	1769	73.8	19.6	73.8	5.9	0.7	74.4	73.1
Sweden	579	75.2	21.6	75.2	2.5	0.7	77.6	73.1
Thailand	921	80.9	14.6	80.9	4.4	0.1	83.5	77.9
Turkey	870	78.5	20.5	78.5	1.1	0.0	79.4	77.6
United Arab Emirates	2569	70.8	24.3	70.8	4.9	0.1	73.8	67.7
United States	1436	83.6	15.3	83.6	0.5	0.6	84.3	82.9
International Avg (n=39)	36144	76.5	19.7	76.5	3.3	0.4	77.4	75.6
Buenos Aires, Argentina	468	55.6	23.8	55.6	14.4	6.3	52.8	58.4
Ontario, Canada	646	85.5	12.4	85.5	1.7	0.4	87.7	83.3
Quebec, Canada	565	84.5	14.0	84.5	0.1	1.4	83.3	85.9
Norway (8)	683	56.5	39.1	56.5	4.4	0.0	58.1	54.8
Abu Dhabi, UAE	691	64.9	28.5	64.9	6.4	0.1	67.7	62.1
Dubai, UAE	879	79.7	16.7	79.7	3.5	0.1	80.4	78.9
Florida, US	290	81.6	16.3	81.6	2.2	0.0	78.1	84.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_05D (S062010D): Chemistry / Knowing Type: MC Key: A
Label: Physical or chemical property: density

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	75.6	75.6	20.8	3.5	0.1	74.0	77.1
Bahrain	710	65.2	65.2	31.5	2.8	0.5	68.9	61.6
Botswana	849	68.3	68.3	19.7	12.0	0.0	75.8	60.3
Canada	1253	78.1	78.1	20.2	1.1	0.7	76.5	79.8
Chile	706	66.7	66.7	29.3	3.5	0.5	62.0	70.5
Chinese Taipei	818	74.1	74.1	25.6	0.3	0.0	70.3	77.6
Egypt	1126	55.3	55.3	32.6	11.9	0.2	52.7	58.0
England	689	79.2	79.2	17.2	3.1	0.5	76.9	81.4
Georgia	571	78.5	78.5	15.1	5.6	0.8	77.8	79.2
Hong Kong SAR	604	77.1	77.1	21.6	1.3	0.0	76.8	77.3
Hungary	703	74.7	74.7	23.8	1.0	0.5	73.4	75.9
Iran, Islamic Rep. of	886	75.8	75.8	21.8	2.0	0.3	78.9	73.1
Ireland	658	82.7	82.7	15.8	1.1	0.4	83.7	81.8
Israel	786	71.5	71.5	23.4	4.1	0.9	72.9	70.1
Italy	647	78.1	78.1	20.4	1.3	0.2	77.2	78.7
Japan	672	81.6	81.6	17.0	1.3	0.1	82.7	80.6
Jordan	1126	64.9	64.9	30.2	4.5	0.3	68.0	62.2
Kazakhstan	700	88.0	88.0	9.4	2.2	0.4	88.7	87.3
Korea, Rep. of	761	70.8	70.8	27.7	1.6	0.0	68.3	72.9
Kuwait	623	63.3	63.3	32.0	3.2	1.6	68.6	58.2
Lebanon	546	73.3	73.3	17.9	5.9	2.9	72.7	74.1
Lithuania	630	84.0	84.0	14.4	1.7	0.0	83.9	84.0
Malaysia	1383	65.8	65.8	30.6	3.2	0.4	67.2	64.3
Malta	544	69.6	69.6	27.0	3.3	0.2	68.5	70.6
Morocco	1890	68.3	68.3	27.8	3.7	0.1	68.9	67.8
New Zealand	1177	66.6	66.6	28.5	4.2	0.7	64.3	69.4
Norway	669	66.5	66.5	29.8	2.7	1.0	65.1	67.9
Oman	1289	62.2	62.2	31.7	5.8	0.3	64.3	60.2
Qatar	765	65.0	65.0	26.5	8.4	0.2	70.2	59.3
Russian Federation	685	90.5	90.5	6.5	2.6	0.3	91.4	89.7
Saudi Arabia	543	57.2	57.2	37.3	5.5	0.0	59.1	55.4
Singapore	879	87.2	87.2	12.4	0.4	0.0	87.6	86.8
Slovenia	613	77.5	77.5	21.7	0.7	0.0	78.0	77.1
South Africa	1769	58.7	58.7	34.3	6.2	0.7	61.0	56.3
Sweden	579	73.1	73.1	23.5	2.6	0.7	69.0	76.7
Thailand	922	75.9	75.9	18.7	5.2	0.1	79.2	72.2
Turkey	870	61.1	61.1	37.5	1.4	0.0	61.7	60.7
United Arab Emirates	2569	70.4	70.4	24.8	4.7	0.1	75.0	65.7
United States	1436	82.7	82.7	16.2	0.5	0.6	81.2	84.2
International Avg (n=39)	36146	72.4	72.4	23.7	3.5	0.4	72.9	72.0
Buenos Aires, Argentina	468	55.1	55.1	23.8	14.8	6.3	50.9	59.3
Ontario, Canada	647	79.0	79.0	19.0	1.6	0.4	79.0	79.0
Quebec, Canada	565	75.0	75.0	23.2	0.3	1.4	70.7	80.3
Norway (8)	683	63.5	63.5	32.5	3.9	0.0	62.2	65.0
Abu Dhabi, UAE	691	65.8	65.8	27.9	6.2	0.1	69.7	61.7
Dubai, UAE	879	79.2	79.2	18.1	2.7	0.1	81.8	76.2
Florida, US	290	82.0	82.0	15.8	2.2	0.0	79.6	83.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_06 (S062253): Chemistry / Knowing Type: MC Key: D
Label: Chemical reaction definition

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	48.8	17.7	10.0	20.1	48.8	3.2	0.1	51.7	46.1
Bahrain	710	37.5	14.6	16.2	28.8	37.5	2.3	0.6	42.7	32.5
Botswana	849	21.8	13.0	23.6	40.4	21.8	1.2	0.0	23.4	20.0
Canada	1251	49.6	19.9	10.0	19.2	49.6	0.5	0.8	51.1	48.1
Chile	706	31.8	23.3	12.6	28.3	31.8	3.6	0.5	34.6	29.5
Chinese Taipei	818	36.5	38.3	12.7	12.0	36.5	0.4	0.0	33.8	39.1
Egypt	1126	27.8	22.9	17.0	29.4	27.8	2.5	0.3	28.7	26.9
England	689	59.0	15.3	8.2	15.0	59.0	2.0	0.5	62.5	55.6
Georgia	571	13.5	27.5	14.5	39.7	13.5	4.1	0.8	12.0	14.7
Hong Kong SAR	604	38.2	16.1	19.5	25.1	38.2	1.2	0.0	32.3	43.5
Hungary	703	42.8	38.6	5.1	11.2	42.8	1.8	0.5	43.1	42.6
Iran, Islamic Rep. of	886	33.5	20.0	14.8	28.4	33.5	3.0	0.3	34.3	32.7
Ireland	658	42.9	27.2	12.4	15.9	42.9	1.2	0.4	45.4	40.3
Israel	786	49.8	14.5	12.1	18.8	49.8	3.8	0.9	54.9	44.8
Italy	647	40.4	21.2	11.8	24.2	40.4	2.1	0.2	41.2	39.8
Japan	672	60.1	8.0	9.7	20.9	60.1	1.2	0.1	57.5	62.6
Jordan	1126	18.4	27.2	16.5	35.9	18.4	1.7	0.3	17.4	19.3
Kazakhstan	700	45.0	27.0	12.8	12.8	45.0	2.0	0.4	43.7	46.4
Korea, Rep. of	761	45.4	25.1	9.2	19.8	45.4	0.4	0.0	46.5	44.5
Kuwait	623	33.3	20.4	16.0	24.2	33.3	4.3	1.8	40.0	26.5
Lebanon	521	25.3	27.0	13.3	22.7	25.3	8.5	3.2	26.3	23.8
Lithuania	630	24.0	38.1	13.8	21.9	24.0	2.3	0.0	24.3	23.7
Malaysia	1383	26.2	17.0	24.0	30.8	26.2	1.6	0.4	27.1	25.2
Malta	544	41.4	19.8	12.4	24.0	41.4	2.1	0.2	46.4	36.7
Morocco	1890	22.9	11.3	18.1	44.0	22.9	3.6	0.1	26.1	20.2
New Zealand	1177	49.6	18.8	10.6	17.4	49.6	2.7	0.9	51.9	46.9
Norway	669	32.0	34.6	9.8	20.4	32.0	2.2	1.0	25.0	38.7
Oman	1290	27.1	15.9	20.4	32.1	27.1	4.1	0.3	30.9	23.5
Qatar	765	29.9	19.7	21.1	26.5	29.9	2.5	0.2	34.3	25.2
Russian Federation	685	35.3	27.4	15.4	19.5	35.3	2.2	0.3	35.6	35.0
Saudi Arabia	542	28.6	10.9	16.5	42.3	28.6	1.7	0.0	34.6	22.5
Singapore	879	53.2	24.8	9.5	11.9	53.2	0.5	0.0	57.0	49.8
Slovenia	613	39.9	28.8	11.8	18.0	39.9	1.5	0.0	44.3	35.9
South Africa	1769	24.2	17.0	15.9	40.2	24.2	1.9	0.7	26.3	22.0
Sweden	579	47.2	26.5	9.3	10.5	47.2	5.9	0.7	47.4	47.0
Thailand	922	24.4	12.2	13.2	48.5	24.4	1.6	0.1	26.8	21.7
Turkey	870	46.1	19.3	11.0	23.1	46.1	0.6	0.0	47.1	45.2
United Arab Emirates	2569	36.3	19.2	16.7	25.9	36.3	1.8	0.2	39.2	33.4
United States	1436	49.2	19.9	9.6	19.6	49.2	1.1	0.6	50.3	48.1
International Avg (n=39)	36119	36.9	21.7	13.8	24.9	36.9	2.3	0.5	38.4	35.4
Buenos Aires, Argentina	468	27.0	14.8	10.6	26.7	27.0	14.4	6.5	26.0	27.8
Ontario, Canada	647	47.2	22.2	10.1	19.4	47.2	0.4	0.6	48.7	45.8
Quebec, Canada	563	55.7	14.0	7.9	20.1	55.7	0.7	1.5	57.7	53.3
Norway (8)	683	31.4	22.8	11.9	31.1	31.4	2.8	0.0	29.6	33.5
Abu Dhabi, UAE	691	30.2	19.7	17.8	30.5	30.2	1.5	0.3	31.4	28.9
Dubai, UAE	879	44.7	20.5	11.5	21.4	44.7	1.9	0.1	44.2	45.2
Florida, US	290	48.5	13.7	12.2	24.6	48.5	1.1	0.0	48.1	48.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_07 (S062051): Chemistry / Applying Type: CR 1 Point
Label: Color of solution with pH indicator

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	26.3	66.4	26.3	7.2	0.1	30.7	22.0
Bahrain	710	31.9	60.2	31.9	7.2	0.6	40.4	23.9
Botswana	848	15.4	83.1	15.4	1.5	0.0	17.4	13.3
Canada	1253	36.7	58.2	36.7	4.2	0.9	39.4	33.7
Chile	704	21.7	65.8	21.7	11.8	0.7	24.8	19.2
Chinese Taipei	818	71.4	27.2	71.4	1.4	0.0	72.2	70.6
Egypt	1126	8.9	78.8	8.9	11.7	0.5	10.3	7.5
England	689	38.0	56.6	38.0	4.9	0.5	38.6	37.5
Georgia	571	13.4	63.1	13.4	22.7	0.8	15.9	11.4
Hong Kong SAR	604	69.7	27.7	69.7	2.6	0.0	72.1	67.5
Hungary	703	30.3	64.7	30.3	4.6	0.5	30.6	29.9
Iran, Islamic Rep. of	886	25.5	66.4	25.5	7.8	0.3	31.0	20.5
Ireland	658	48.0	48.2	48.0	3.2	0.7	48.5	47.4
Israel	786	33.0	58.8	33.0	7.2	1.1	37.3	28.7
Italy	647	34.1	56.6	34.1	9.0	0.2	36.5	32.2
Japan	672	31.8	62.8	31.8	5.2	0.1	32.2	31.4
Jordan	1126	14.9	79.3	14.9	5.4	0.3	20.9	9.5
Kazakhstan	700	33.5	60.3	33.5	5.7	0.4	34.1	32.9
Korea, Rep. of	761	43.7	51.1	43.7	5.2	0.0	43.1	44.3
Kuwait	623	14.6	68.8	14.6	14.7	1.9	16.7	12.5
Lebanon	547	26.7	56.1	26.7	13.6	3.6	27.9	25.0
Lithuania	630	36.7	54.2	36.7	9.1	0.0	39.6	33.7
Malaysia	1383	33.3	62.9	33.3	3.3	0.4	39.4	26.5
Malta	544	25.6	67.4	25.6	6.9	0.2	24.8	26.3
Morocco	1890	7.8	82.3	7.8	9.7	0.2	8.7	7.0
New Zealand	1177	23.5	69.5	23.5	6.1	0.9	22.6	24.6
Norway	669	25.8	66.4	25.8	6.8	1.0	24.6	26.9
Oman	1290	32.7	62.5	32.7	4.5	0.4	41.1	24.8
Qatar	765	29.1	60.4	29.1	10.3	0.2	34.3	23.4
Russian Federation	685	40.8	47.9	40.8	10.9	0.3	42.7	39.2
Saudi Arabia	543	5.0	84.8	5.0	10.3	0.0	6.3	3.6
Singapore	879	42.1	56.7	42.1	1.2	0.0	42.7	41.6
Slovenia	614	30.6	63.2	30.6	6.2	0.0	35.1	26.4
South Africa	1769	8.8	88.0	8.8	2.4	0.7	9.5	8.2
Sweden	579	29.3	62.9	29.3	7.1	0.7	33.2	25.9
Thailand	922	16.8	74.0	16.8	9.1	0.1	19.5	13.7
Turkey	870	38.2	57.3	38.2	4.4	0.0	45.8	31.6
United Arab Emirates	2569	34.7	60.2	34.7	4.7	0.3	39.4	29.9
United States	1436	28.5	68.7	28.5	2.0	0.7	27.6	29.4
International Avg (n=39)	36146	29.7	62.8	29.7	7.0	0.5	32.2	27.3
Buenos Aires, Argentina	468	9.9	48.0	9.9	35.3	6.8	13.5	6.2
Ontario, Canada	647	28.8	66.0	28.8	4.7	0.6	30.2	27.4
Quebec, Canada	565	51.4	44.7	51.4	2.4	1.6	54.7	47.5
Norway (8)	683	20.9	69.0	20.9	10.1	0.0	24.2	17.1
Abu Dhabi, UAE	691	33.6	60.1	33.6	6.0	0.3	42.6	24.4
Dubai, UAE	879	43.8	53.0	43.8	2.7	0.5	44.2	43.3
Florida, US	290	29.9	66.2	29.9	3.9	0.0	32.7	27.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_08 (S062044): Physics / Reasoning Type: MC Key: D
Label: Metal rods in basin of water

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	23.3	7.5	11.9	53.1	23.3	4.3	0.1	20.4	26.1
Bahrain	710	24.0	14.9	14.9	43.2	24.0	2.3	0.7	25.5	22.5
Botswana	848	20.2	19.0	11.3	48.2	20.2	1.4	0.0	22.9	17.3
Canada	1251	25.0	6.8	8.6	57.5	25.0	1.2	0.9	24.3	25.6
Chile	704	20.6	12.9	13.0	50.5	20.6	2.3	0.7	20.8	20.5
Chinese Taipei	818	50.0	3.4	4.3	41.6	50.0	0.7	0.0	47.4	52.4
Egypt	1126	19.3	20.5	19.3	34.9	19.3	5.4	0.8	17.0	21.7
England	688	19.5	6.9	10.0	58.9	19.5	4.2	0.5	18.7	20.3
Georgia	571	17.8	15.5	15.4	44.1	17.8	6.5	0.8	18.6	17.1
Hong Kong SAR	604	27.3	5.2	7.2	58.7	27.3	1.7	0.0	21.4	32.7
Hungary	703	33.8	10.5	11.0	42.6	33.8	1.5	0.5	33.1	34.6
Iran, Islamic Rep. of	886	31.1	12.5	15.7	36.4	31.1	3.8	0.5	29.8	32.2
Ireland	658	22.4	9.7	9.3	55.5	22.4	2.4	0.7	21.8	23.0
Israel	786	25.3	9.2	10.2	47.7	25.3	6.6	1.1	24.4	26.2
Italy	647	25.7	8.7	11.6	51.3	25.7	2.3	0.4	28.4	23.4
Japan	672	35.7	3.8	9.2	49.0	35.7	2.2	0.1	35.1	36.2
Jordan	1126	15.7	19.9	16.9	44.2	15.7	2.9	0.4	15.4	16.0
Kazakhstan	700	38.2	16.3	12.2	29.8	38.2	3.1	0.4	37.6	38.8
Korea, Rep. of	761	44.1	4.0	6.9	44.6	44.1	0.4	0.0	47.2	41.4
Kuwait	623	11.2	16.3	16.4	46.7	11.2	7.2	2.3	16.2	6.2
Lebanon	535	16.6	11.8	12.3	35.8	16.6	19.3	4.2	18.8	13.7
Lithuania	630	32.4	6.9	10.7	48.2	32.4	1.7	0.1	33.9	31.0
Malaysia	1383	18.4	10.7	11.8	57.4	18.4	1.2	0.4	16.3	20.8
Malta	544	15.8	13.7	10.9	55.3	15.8	4.2	0.2	13.3	18.1
Morocco	1890	15.7	17.2	17.2	45.5	15.7	4.1	0.3	15.0	16.3
New Zealand	1177	22.4	8.2	11.2	54.3	22.4	2.9	1.0	22.1	22.7
Norway	669	23.4	8.0	12.6	46.8	23.4	8.1	1.1	23.8	23.0
Oman	1290	26.8	17.5	14.5	37.9	26.8	2.9	0.5	25.8	27.8
Qatar	765	19.8	14.6	16.3	43.5	19.8	5.5	0.3	19.7	19.9
Russian Federation	685	42.3	5.1	10.2	38.3	42.3	3.6	0.4	43.3	41.5
Saudi Arabia	542	17.3	21.0	17.2	41.9	17.3	2.4	0.2	17.1	17.4
Singapore	879	45.8	3.4	5.6	44.6	45.8	0.7	0.0	46.0	45.5
Slovenia	614	27.9	6.1	9.1	54.6	27.9	2.2	0.0	23.3	32.3
South Africa	1769	14.6	19.1	15.4	47.0	14.6	2.9	0.9	13.7	15.5
Sweden	579	23.3	6.7	9.2	49.8	23.3	9.7	1.3	26.2	20.8
Thailand	922	21.5	17.5	13.5	44.8	21.5	2.5	0.2	23.5	19.2
Turkey	870	38.2	10.6	11.4	39.2	38.2	0.6	0.0	40.9	35.9
United Arab Emirates	2569	22.8	14.4	10.3	49.3	22.8	2.9	0.3	23.3	22.4
United States	1436	26.1	10.5	10.5	51.5	26.1	0.7	0.8	26.3	25.8
International Avg (n=39)	36130	25.7	11.4	11.9	46.8	25.7	3.6	0.6	25.6	25.7
Buenos Aires, Argentina	468	10.7	6.6	8.1	33.4	10.7	32.8	8.5	7.7	13.6
Ontario, Canada	646	24.0	7.6	8.7	57.7	24.0	1.4	0.6	22.6	25.3
Quebec, Canada	564	27.2	5.8	8.2	56.0	27.2	1.3	1.6	25.5	29.1
Norway (8)	683	16.9	9.3	16.2	48.1	16.9	9.4	0.1	16.8	16.9
Abu Dhabi, UAE	691	20.3	17.5	10.9	48.8	20.3	2.2	0.3	21.1	19.4
Dubai, UAE	879	28.0	10.5	8.7	49.5	28.0	2.7	0.6	28.7	27.3
Florida, US	290	33.8	12.6	11.8	39.0	33.8	2.5	0.2	29.6	37.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_09 (S062046): Physics / Reasoning Type: CR 1 Point
Label: Two magnets pick up paper clips

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	65.5	33.5	65.5	0.9	0.1	65.5	65.6
Bahrain	710	42.6	56.0	42.6	0.7	0.7	46.4	39.0
Botswana	848	26.5	72.4	26.5	1.1	0.0	24.5	28.6
Canada	1253	59.6	39.1	59.6	0.3	1.0	60.9	58.3
Chile	706	35.0	62.9	35.0	1.4	0.6	38.5	32.2
Chinese Taipei	818	75.0	24.8	75.0	0.2	0.0	74.1	75.8
Egypt	1126	12.3	83.2	12.3	3.4	1.1	10.1	14.7
England	689	64.9	33.5	64.9	0.9	0.7	63.9	65.9
Georgia	571	19.4	77.0	19.4	2.2	1.4	20.8	18.3
Hong Kong SAR	604	70.9	28.3	70.9	0.8	0.0	70.7	71.1
Hungary	703	49.6	49.3	49.6	0.7	0.5	49.0	50.2
Iran, Islamic Rep. of	886	48.2	49.9	48.2	1.4	0.5	47.5	48.8
Ireland	658	62.4	36.1	62.4	0.9	0.7	61.4	63.3
Israel	786	48.6	49.0	48.6	1.4	1.1	46.5	50.7
Italy	647	57.3	40.5	57.3	1.7	0.4	56.5	58.0
Japan	672	50.3	48.8	50.3	0.6	0.2	51.7	49.0
Jordan	1126	25.1	73.6	25.1	0.9	0.4	28.4	22.0
Kazakhstan	700	46.1	51.9	46.1	1.6	0.5	44.5	47.7
Korea, Rep. of	761	56.3	43.5	56.3	0.2	0.0	51.6	60.4
Kuwait	623	25.0	71.7	25.0	0.6	2.6	29.4	20.7
Lebanon	550	26.0	61.7	26.0	6.6	5.7	21.8	31.8
Lithuania	630	57.5	41.6	57.5	0.8	0.1	55.0	60.0
Malaysia	1383	38.6	59.8	38.6	1.1	0.4	35.2	42.5
Malta	544	54.9	43.9	54.9	0.9	0.2	53.9	55.9
Morocco	1890	14.0	82.9	14.0	2.8	0.4	10.7	16.7
New Zealand	1177	65.1	32.5	65.1	1.3	1.2	65.0	65.1
Norway	669	65.2	32.6	65.2	0.9	1.3	66.4	64.0
Oman	1289	42.5	56.1	42.5	0.9	0.5	42.4	42.5
Qatar	765	35.8	62.9	35.8	0.9	0.3	39.4	31.9
Russian Federation	685	48.7	48.7	48.7	2.2	0.4	46.1	51.0
Saudi Arabia	543	22.4	75.7	22.4	1.7	0.2	24.5	20.2
Singapore	880	85.3	14.4	85.3	0.1	0.2	86.1	84.6
Slovenia	615	74.2	25.3	74.2	0.4	0.1	70.9	77.3
South Africa	1772	26.0	72.5	26.0	0.6	1.0	20.8	31.3
Sweden	579	53.3	44.0	53.3	1.3	1.4	52.9	53.5
Thailand	922	39.5	58.2	39.5	2.1	0.2	40.3	38.6
Turkey	870	43.9	55.8	43.9	0.3	0.1	41.1	46.3
United Arab Emirates	2569	46.0	53.0	46.0	0.7	0.4	48.0	43.9
United States	1436	57.5	41.2	57.5	0.4	0.8	56.4	58.8
International Avg (n=39)	36155	47.1	51.0	47.1	1.2	0.7	46.6	47.6
Buenos Aires, Argentina	467	37.6	47.9	37.6	5.7	8.9	35.3	39.7
Ontario, Canada	647	58.3	40.4	58.3	0.4	0.9	59.6	57.0
Quebec, Canada	565	63.3	35.2	63.3	0.0	1.6	59.3	68.0
Norway (8)	683	63.8	33.6	63.8	2.3	0.2	61.6	66.2
Abu Dhabi, UAE	691	40.4	58.6	40.4	0.6	0.3	42.0	38.8
Dubai, UAE	879	60.9	37.9	60.9	0.6	0.6	62.3	59.5
Florida, US	290	53.0	44.9	53.0	1.5	0.6	47.7	56.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_10 (S062149): Physics / Knowing Type: CR 1 Point
Label: Mirrors around a corner

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	33.9	64.1	33.9	1.9	0.1	30.8	36.9
Bahrain	710	39.6	58.2	39.6	1.5	0.7	46.2	33.4
Botswana	848	26.1	71.9	26.1	1.9	0.1	26.7	25.4
Canada	1253	51.9	45.9	51.9	1.2	1.0	50.1	53.7
Chile	706	30.6	65.2	30.6	3.5	0.6	34.0	27.8
Chinese Taipei	818	31.4	68.0	31.4	0.6	0.0	28.9	33.8
Egypt	1126	13.6	80.6	13.6	4.8	1.1	13.0	14.2
England	689	45.0	52.2	45.0	2.1	0.7	43.7	46.3
Georgia	571	36.9	58.4	36.9	3.3	1.4	44.1	30.9
Hong Kong SAR	604	36.3	61.7	36.3	2.0	0.0	38.2	34.5
Hungary	703	23.5	74.5	23.5	1.5	0.5	19.0	28.1
Iran, Islamic Rep. of	886	31.6	65.0	31.6	2.9	0.5	25.8	36.7
Ireland	658	30.6	67.9	30.6	0.8	0.7	23.7	37.7
Israel	786	39.2	57.2	39.2	2.4	1.3	34.7	43.6
Italy	647	25.9	70.2	25.9	3.5	0.4	25.4	26.3
Japan	672	41.7	56.6	41.7	1.5	0.2	36.7	46.5
Jordan	1126	25.2	71.8	25.2	2.7	0.4	29.7	21.1
Kazakhstan	700	54.5	43.4	54.5	1.6	0.5	51.2	58.0
Korea, Rep. of	761	38.0	61.9	38.0	0.1	0.0	36.9	39.0
Kuwait	623	30.6	64.8	30.6	2.0	2.6	37.0	24.3
Lebanon	550	28.1	58.1	28.1	8.0	5.9	27.0	29.7
Lithuania	630	21.9	76.8	21.9	1.3	0.1	17.7	25.9
Malaysia	1383	38.9	55.5	38.9	5.2	0.4	37.5	40.4
Malta	544	36.3	61.4	36.3	1.8	0.4	38.5	34.2
Morocco	1885	32.3	64.8	32.3	2.4	0.4	29.9	34.5
New Zealand	1177	45.0	52.2	45.0	1.6	1.2	45.6	44.2
Norway	669	46.0	50.3	46.0	2.4	1.3	42.5	49.5
Oman	1284	35.7	61.7	35.7	2.1	0.6	40.1	31.5
Qatar	765	28.9	67.3	28.9	3.4	0.4	27.7	30.3
Russian Federation	685	31.0	64.9	31.0	3.8	0.4	24.5	36.8
Saudi Arabia	543	36.4	60.8	36.4	2.4	0.4	45.3	27.3
Singapore	880	55.5	43.9	55.5	0.4	0.2	52.5	58.1
Slovenia	615	54.3	44.7	54.3	0.8	0.1	50.3	58.0
South Africa	1772	37.2	60.2	37.2	1.6	1.0	37.5	36.8
Sweden	579	45.2	50.1	45.2	3.3	1.4	39.2	50.3
Thailand	922	43.6	50.9	43.6	5.2	0.2	46.2	40.6
Turkey	870	50.3	48.3	50.3	1.4	0.1	50.0	50.5
United Arab Emirates	2569	32.6	64.8	32.6	2.2	0.4	32.5	32.7
United States	1436	41.6	56.7	41.6	0.9	0.8	37.6	45.9
International Avg (n=39)	36145	36.6	60.3	36.6	2.4	0.7	35.8	37.3
Buenos Aires, Argentina	468	24.4	58.9	24.4	7.5	9.1	23.7	25.3
Ontario, Canada	647	54.2	43.5	54.2	1.4	0.9	53.3	55.0
Quebec, Canada	565	49.0	48.3	49.0	1.1	1.6	46.3	52.2
Norway (8)	683	41.8	56.5	41.8	1.4	0.3	43.5	39.9
Abu Dhabi, UAE	691	34.9	62.8	34.9	1.8	0.5	36.1	33.6
Dubai, UAE	879	40.2	57.1	40.2	2.2	0.6	37.0	43.6
Florida, US	290	36.1	60.9	36.1	1.9	1.1	28.6	41.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_11 (S062268): Physics / Applying Type: MC Key: A
Label: Toy car's distance over time

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	78.8	78.8	7.3	6.9	3.9	3.0	0.1	78.7	78.9
Bahrain	710	69.0	69.0	8.9	9.5	9.9	1.8	0.9	75.2	63.0
Botswana	848	68.3	68.3	8.2	11.0	11.3	0.8	0.4	71.4	64.9
Canada	1253	83.1	83.1	4.1	6.5	4.3	0.7	1.3	85.5	80.4
Chile	706	56.0	56.0	16.6	14.2	8.7	3.7	0.8	55.0	56.9
Chinese Taipei	818	86.3	86.3	4.5	4.5	4.2	0.5	0.0	87.2	85.4
Egypt	1126	46.8	46.8	18.5	16.8	11.8	4.5	1.6	44.7	49.1
England	689	85.3	85.3	2.8	4.2	4.9	2.2	0.7	85.7	84.9
Georgia	571	59.5	59.5	12.7	11.8	8.3	6.2	1.5	68.7	51.6
Hong Kong SAR	604	84.9	84.9	4.2	4.9	5.4	0.6	0.0	87.8	82.3
Hungary	703	80.8	80.8	5.0	7.2	6.2	0.3	0.5	79.9	81.8
Iran, Islamic Rep. of	886	61.8	61.8	13.0	12.1	9.1	3.0	0.9	64.0	59.8
Ireland	658	80.0	80.0	4.6	6.7	6.5	1.4	0.8	77.3	82.8
Israel	786	74.3	74.3	7.1	6.9	5.8	4.6	1.3	75.2	73.4
Italy	647	79.0	79.0	7.0	7.4	6.2	0.0	0.4	82.5	76.1
Japan	672	81.2	81.2	6.3	6.4	4.6	1.3	0.2	83.2	79.2
Jordan	1126	60.5	60.5	12.6	13.8	9.8	2.3	0.9	64.0	57.4
Kazakhstan	700	85.2	85.2	4.2	5.1	3.8	1.2	0.5	86.1	84.4
Korea, Rep. of	761	79.2	79.2	5.4	8.0	7.2	0.2	0.0	80.2	78.4
Kuwait	623	57.1	57.1	12.8	13.5	8.0	5.7	3.0	64.7	49.7
Lebanon	535	45.3	45.3	10.5	11.4	7.3	19.4	6.1	43.5	47.9
Lithuania	630	86.2	86.2	3.3	3.6	5.6	1.2	0.1	89.3	83.1
Malaysia	1383	67.2	67.2	7.3	8.1	15.3	1.5	0.6	67.9	66.4
Malta	544	71.6	71.6	7.5	8.3	7.0	5.0	0.6	71.8	71.4
Morocco	1890	52.5	52.5	14.8	14.7	13.8	3.7	0.6	51.8	53.1
New Zealand	1177	77.5	77.5	8.0	5.5	5.7	2.0	1.3	77.8	77.2
Norway	669	76.7	76.7	5.8	5.0	4.9	5.8	1.8	74.5	78.8
Oman	1288	60.4	60.4	12.6	12.7	11.5	2.2	0.6	65.4	55.6
Qatar	765	67.0	67.0	11.5	11.5	7.1	2.2	0.8	70.6	63.2
Russian Federation	685	80.3	80.3	4.9	4.9	5.5	4.0	0.4	79.2	81.2
Saudi Arabia	543	55.3	55.3	18.3	12.4	10.9	2.8	0.4	60.2	50.2
Singapore	880	87.2	87.2	2.1	3.7	6.4	0.4	0.2	87.2	87.2
Slovenia	614	85.7	85.7	3.5	4.7	3.8	2.2	0.1	90.2	81.6
South Africa	1772	51.7	51.7	15.3	14.6	13.4	3.6	1.4	52.4	51.1
Sweden	579	80.2	80.2	4.0	3.3	5.4	5.3	1.9	78.7	81.4
Thailand	922	65.1	65.1	10.1	10.5	11.7	2.3	0.2	68.6	61.2
Turkey	870	69.8	69.8	8.5	8.4	13.0	0.2	0.1	71.7	68.2
United Arab Emirates	2569	75.0	75.0	7.6	8.6	6.0	2.1	0.6	79.6	70.4
United States	1436	83.8	83.8	4.1	5.0	5.1	0.8	1.1	85.2	82.3
International Avg (n=39)	36138	71.7	71.7	8.3	8.6	7.7	2.8	0.9	73.4	70.0
Buenos Aires, Argentina	468	36.1	36.1	6.4	14.3	7.8	25.5	10.0	36.6	35.6
Ontario, Canada	647	79.5	79.5	5.4	8.7	4.5	0.7	1.3	81.5	77.6
Quebec, Canada	565	90.7	90.7	2.7	1.3	3.3	0.5	1.6	92.5	88.5
Norway (8)	683	75.2	75.2	6.9	6.1	5.6	5.8	0.4	76.0	74.3
Abu Dhabi, UAE	691	72.9	72.9	7.6	10.1	6.1	2.7	0.5	79.0	66.6
Dubai, UAE	879	82.6	82.6	5.1	4.9	5.3	1.7	0.6	86.6	78.2
Florida, US	290	79.2	79.2	6.3	5.0	7.1	1.3	1.1	78.5	79.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_12 (S062170): Earth Science / Knowing Type: MC Key: D
Label: Earth's continents are moving

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	64.6	6.4	10.9	16.1	64.6	1.9	0.1	65.2	64.0
Bahrain	710	60.0	10.1	11.1	16.5	60.0	1.5	0.9	66.6	53.7
Botswana	848	56.9	10.0	21.6	9.5	56.9	1.4	0.6	59.4	54.1
Canada	1250	68.4	4.3	12.0	13.3	68.4	0.6	1.4	70.0	66.7
Chile	706	57.0	8.1	17.8	13.0	57.0	2.9	1.2	60.5	54.1
Chinese Taipei	818	84.3	1.5	4.5	9.1	84.3	0.4	0.2	82.9	85.6
Egypt	1125	50.1	13.7	15.6	16.1	50.1	2.7	1.8	51.6	48.4
England	689	66.5	3.4	11.3	17.4	66.5	0.7	0.7	67.8	65.3
Georgia	571	59.1	8.1	14.1	12.9	59.1	4.0	1.8	64.9	54.1
Hong Kong SAR	604	76.1	7.1	7.3	8.6	76.1	0.9	0.0	73.9	78.1
Hungary	703	65.9	4.4	11.9	15.9	65.9	1.4	0.5	65.9	65.9
Iran, Islamic Rep. of	886	62.3	8.1	12.6	14.5	62.3	1.4	1.2	66.6	58.4
Ireland	658	72.6	2.1	9.6	13.7	72.6	1.2	0.8	70.5	74.7
Israel	786	69.0	3.7	9.8	12.9	69.0	2.9	1.7	72.4	65.6
Italy	647	81.3	2.4	7.8	6.1	81.3	1.9	0.4	83.0	80.0
Japan	672	74.0	2.2	5.6	17.4	74.0	0.5	0.2	70.6	77.5
Jordan	1126	60.1	11.0	12.3	13.8	60.1	1.6	1.2	62.4	58.1
Kazakhstan	700	77.8	5.8	3.8	10.8	77.8	1.4	0.5	78.9	76.6
Korea, Rep. of	761	68.3	4.0	8.2	19.4	68.3	0.1	0.0	67.5	69.0
Kuwait	623	51.0	11.3	16.0	14.9	51.0	3.6	3.3	56.1	46.0
Lebanon	544	36.6	8.6	15.3	17.1	36.6	14.3	8.2	41.5	29.7
Lithuania	630	73.9	4.1	10.0	11.0	73.9	0.9	0.1	73.2	74.5
Malaysia	1383	36.7	9.3	29.0	21.6	36.7	2.6	0.8	36.9	36.6
Malta	544	67.3	3.3	13.7	12.4	67.3	2.4	0.9	67.2	67.4
Morocco	1890	76.6	5.2	5.9	8.6	76.6	2.8	1.0	79.8	73.8
New Zealand	1177	61.8	5.4	11.0	18.3	61.8	2.0	1.5	60.0	63.9
Norway	669	68.0	4.6	10.7	12.5	68.0	2.3	1.9	65.9	69.9
Oman	1288	63.7	7.2	12.7	14.2	63.7	1.4	0.9	65.8	61.6
Qatar	765	52.5	9.2	14.4	20.5	52.5	2.5	0.9	56.3	48.3
Russian Federation	685	74.8	4.5	5.5	12.7	74.8	1.5	0.9	67.8	81.1
Saudi Arabia	541	48.4	11.0	16.4	22.2	48.4	1.4	0.6	50.7	46.1
Singapore	880	68.8	5.1	9.4	15.8	68.8	0.7	0.2	69.3	68.4
Slovenia	614	77.8	4.7	8.0	7.5	77.8	1.8	0.2	77.8	77.9
South Africa	1772	53.5	16.4	11.1	15.2	53.5	1.6	2.1	59.3	47.4
Sweden	579	64.3	1.6	12.1	15.4	64.3	3.5	3.0	59.2	68.7
Thailand	922	71.7	10.9	7.3	8.1	71.7	1.8	0.2	76.9	65.6
Turkey	870	39.9	9.5	22.5	27.4	39.9	0.5	0.1	39.3	40.5
United Arab Emirates	2569	67.2	7.9	9.7	12.1	67.2	2.4	0.8	72.4	61.9
United States	1436	67.7	4.2	9.6	15.8	67.7	1.3	1.4	70.6	64.6
International Avg (n=39)	36141	64.0	6.7	11.7	14.4	64.0	2.1	1.1	65.3	62.7
Buenos Aires, Argentina	468	56.3	1.7	11.6	8.7	56.3	8.1	13.7	54.6	57.3
Ontario, Canada	645	61.3	4.9	15.6	16.1	61.3	0.7	1.5	62.2	60.3
Quebec, Canada	564	81.6	4.1	4.3	7.8	81.6	0.6	1.6	83.6	79.2
Norway (8)	683	67.9	5.8	14.0	10.0	67.9	1.5	0.8	68.6	67.0
Abu Dhabi, UAE	691	63.8	9.4	10.1	13.2	63.8	2.9	0.6	71.1	56.4
Dubai, UAE	879	72.7	5.8	8.5	10.6	72.7	1.7	0.7	74.2	71.1
Florida, US	290	62.3	3.5	10.7	21.5	62.3	0.2	1.9	63.4	61.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S02_13 (S062234): Earth Science / Knowing Type: CR 2 Points
Label: Reduce air pollution of cars

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	19.0	52.2	16.3	71.2	19.0	12.0	0.6	15.7	22.2
Bahrain	710	13.9	40.8	26.2	54.7	13.9	18.0	1.1	16.2	11.7
Botswana	848	2.0	9.8	79.4	11.8	2.0	7.7	1.1	1.2	2.8
Canada	1253	32.7	47.7	10.4	80.4	32.7	7.8	1.4	29.2	36.4
Chile	706	8.1	42.9	18.9	51.0	8.1	28.2	1.9	6.1	9.7
Chinese Taipei	818	14.4	52.3	20.9	66.7	14.4	12.2	0.2	11.7	16.9
Egypt	1125	3.6	16.6	46.5	20.2	3.6	31.4	1.9	3.6	3.6
England	689	23.3	51.2	13.1	74.5	23.3	11.4	1.0	19.7	26.9
Georgia	571	21.1	31.4	12.0	52.4	21.1	33.0	2.5	23.1	19.3
Hong Kong SAR	604	12.3	52.9	21.2	65.1	12.3	13.7	0.0	10.3	14.1
Hungary	703	21.3	43.4	17.4	64.7	21.3	17.3	0.6	14.5	28.2
Iran, Islamic Rep. of	886	12.6	37.6	24.8	50.2	12.6	23.7	1.3	12.8	12.4
Ireland	658	19.2	60.5	13.0	79.8	19.2	6.3	1.0	12.8	25.8
Israel	786	22.1	37.8	14.9	59.9	22.1	23.0	2.2	22.3	21.9
Italy	647	12.1	63.5	6.2	75.6	12.1	17.7	0.4	12.4	11.9
Japan	672	29.1	59.0	4.6	88.1	29.1	7.1	0.2	31.6	26.6
Jordan	1126	7.4	28.9	44.4	36.3	7.4	17.8	1.5	5.8	9.0
Kazakhstan	700	25.5	38.6	18.0	64.0	25.5	17.5	0.5	23.6	27.4
Korea, Rep. of	761	17.5	62.6	12.6	80.1	17.5	7.3	0.0	13.8	20.8
Kuwait	623	11.2	18.9	38.6	30.1	11.2	27.7	3.6	11.5	10.8
Lebanon	550	13.3	20.0	22.6	33.3	13.3	35.9	8.1	11.7	15.5
Lithuania	630	22.3	46.1	16.4	68.3	22.3	15.1	0.2	18.7	25.8
Malaysia	1383	10.6	38.9	37.9	49.5	10.6	11.4	1.2	9.7	11.6
Malta	544	16.7	39.6	20.8	56.2	16.7	21.4	1.5	14.4	18.8
Morocco	1889	5.1	13.7	43.7	18.8	5.1	36.3	1.2	4.2	5.9
New Zealand	1177	22.0	40.5	23.4	62.5	22.0	12.4	1.7	17.7	27.1
Norway	669	13.8	57.2	10.2	71.1	13.8	16.8	1.9	8.7	18.8
Oman	1284	8.5	36.2	42.1	44.7	8.5	12.3	1.0	9.6	7.5
Qatar	765	11.6	29.0	36.4	40.6	11.6	22.0	1.1	11.3	11.8
Russian Federation	685	20.2	41.6	8.5	61.7	20.2	28.4	1.3	20.9	19.5
Saudi Arabia	543	4.0	20.6	52.4	24.6	4.0	22.3	0.6	3.4	4.6
Singapore	880	26.0	47.6	22.3	73.5	26.0	4.0	0.3	22.8	28.8
Slovenia	614	40.9	45.2	8.1	86.1	40.9	5.6	0.2	36.6	44.8
South Africa	1772	4.1	11.5	69.5	15.6	4.1	12.4	2.5	3.5	4.6
Sweden	579	24.2	51.4	11.0	75.6	24.2	9.7	3.7	17.8	29.7
Thailand	922	6.4	27.8	49.7	34.2	6.4	15.6	0.5	7.5	5.2
Turkey	870	25.1	42.2	18.6	67.3	25.1	14.0	0.2	22.4	27.4
United Arab Emirates	2569	15.0	39.2	30.0	54.2	15.0	14.7	1.1	14.1	15.9
United States	1436	27.3	49.2	16.8	76.6	27.3	5.1	1.6	25.7	29.0
International Avg (n=39)	36147	16.5	39.6	25.6	56.2	16.5	16.8	1.4	14.8	18.2
Buenos Aires, Argentina	468	4.4	19.5	16.0	23.9	4.4	45.5	14.6	2.2	6.4
Ontario, Canada	647	33.8	46.1	11.4	79.9	33.8	7.3	1.5	28.8	38.8
Quebec, Canada	565	28.7	51.6	9.7	80.3	28.7	8.3	1.6	28.3	29.2
Norway (8)	683	12.0	53.3	15.7	65.3	12.0	18.2	0.8	7.8	16.8
Abu Dhabi, UAE	691	13.5	35.8	34.2	49.2	13.5	15.8	0.7	15.9	11.0
Dubai, UAE	879	18.3	47.0	23.4	65.3	18.3	10.3	1.1	15.0	21.8
Florida, US	290	17.4	50.1	21.6	67.4	17.4	8.9	2.1	14.8	19.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S02_14 (S062271): Earth Science / Applying Type: MC Key: C
Label: Solar system changing seasons

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1500	44.8	6.7	16.5	44.8	29.5	1.1	1.4	42.9	46.7
Bahrain	710	62.0	7.8	7.9	62.0	20.4	0.7	1.3	64.3	59.7
Botswana	848	32.8	10.9	5.5	32.8	48.4	0.9	1.5	30.6	35.1
Canada	1252	49.2	5.5	14.7	49.2	27.8	1.1	1.7	48.7	49.8
Chile	706	42.6	6.7	9.3	42.6	38.8	0.3	2.3	40.5	44.3
Chinese Taipei	818	46.5	10.0	15.8	46.5	27.4	0.0	0.3	46.9	46.2
Egypt	1126	37.6	9.2	5.4	37.6	43.7	1.8	2.3	39.1	35.9
England	689	45.6	7.5	15.0	45.6	29.2	1.6	1.1	44.1	47.0
Georgia	571	38.5	8.6	7.2	38.5	39.1	3.1	3.4	37.9	39.1
Hong Kong SAR	604	55.5	6.0	16.9	55.5	20.7	0.9	0.0	54.6	56.4
Hungary	703	55.7	5.6	16.3	55.7	20.6	1.1	0.8	56.8	54.5
Iran, Islamic Rep. of	886	37.3	12.1	9.1	37.3	37.0	2.2	2.3	37.2	37.4
Ireland	658	41.8	6.9	11.3	41.8	38.0	1.1	1.0	40.5	43.1
Israel	786	44.5	10.4	10.5	44.5	29.8	2.2	2.6	42.1	47.0
Italy	647	61.9	4.7	13.0	61.9	17.5	1.8	1.1	59.3	64.1
Japan	672	54.2	5.4	19.1	54.2	20.1	0.9	0.4	54.1	54.3
Jordan	1126	34.4	9.5	8.1	34.4	45.6	0.7	1.8	31.7	36.9
Kazakhstan	700	70.4	4.4	2.7	70.4	20.9	1.0	0.7	69.1	71.7
Korea, Rep. of	761	63.0	5.1	13.0	63.0	18.2	0.3	0.4	61.6	64.2
Kuwait	623	36.3	10.7	9.6	36.3	37.0	2.6	3.9	39.4	33.4
Lebanon	533	43.3	8.3	5.8	43.3	27.4	6.2	9.0	43.6	43.0
Lithuania	630	52.3	7.4	12.0	52.3	26.3	1.5	0.4	51.7	52.9
Malaysia	1383	54.8	9.3	9.8	54.8	22.7	1.5	1.9	54.8	54.7
Malta	544	49.3	8.1	12.9	49.3	25.1	2.8	1.9	51.5	47.1
Morocco	1890	42.2	10.8	7.8	42.2	35.5	1.9	1.8	41.4	42.8
New Zealand	1177	48.9	8.6	12.7	48.9	26.7	1.1	2.1	48.9	48.9
Norway	669	46.6	7.7	18.7	46.6	21.7	2.2	3.0	45.4	47.8
Oman	1289	49.1	12.4	7.6	49.1	28.4	1.1	1.4	52.2	46.2
Qatar	765	47.1	9.2	11.3	47.1	29.7	1.4	1.3	45.4	48.8
Russian Federation	685	53.4	2.9	12.0	53.4	28.6	0.8	2.2	52.6	54.1
Saudi Arabia	542	48.2	9.7	8.2	48.2	31.8	0.8	1.2	54.0	42.2
Singapore	880	42.5	7.7	19.4	42.5	29.4	0.6	0.4	41.9	43.0
Slovenia	615	66.0	3.0	17.1	66.0	12.2	1.4	0.4	64.1	67.7
South Africa	1772	34.6	11.1	7.2	34.6	41.1	2.7	3.4	33.4	35.8
Sweden	579	42.3	6.1	19.5	42.3	26.0	2.0	4.1	42.8	41.9
Thailand	922	37.1	12.7	8.7	37.1	40.4	0.5	0.6	40.2	33.4
Turkey	870	41.8	11.8	8.3	41.8	37.9	0.1	0.2	41.9	41.7
United Arab Emirates	2569	45.0	9.2	10.1	45.0	33.4	0.9	1.4	45.5	44.5
United States	1436	56.7	4.6	16.5	56.7	18.9	1.6	1.8	54.0	59.6
International Avg (n=39)	36136	47.6	8.1	11.6	47.6	29.6	1.4	1.8	47.4	47.8
Buenos Aires, Argentina	468	50.4	3.9	6.7	50.4	15.3	5.4	18.3	50.2	50.3
Ontario, Canada	647	41.8	6.9	14.5	41.8	33.9	0.9	2.0	39.1	44.4
Quebec, Canada	564	64.2	3.5	15.6	64.2	13.5	1.6	1.6	64.4	63.9
Norway (8)	683	49.0	6.8	19.1	49.0	22.7	1.4	1.1	49.4	48.5
Abu Dhabi, UAE	691	37.4	11.8	10.7	37.4	37.5	1.5	1.1	37.9	36.9
Dubai, UAE	879	54.4	6.5	13.4	54.4	24.1	0.3	1.3	53.0	56.0
Florida, US	290	58.1	4.4	19.6	58.1	15.5	0.3	2.1	54.3	60.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_01 (S052261): Biology / Knowing Type: MC Key: B
Label: Why people shiver when cold

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	57.2	18.8	57.2	17.5	4.9	1.6	0.1	51.2	63.6
Bahrain	706	31.9	44.8	31.9	11.4	10.3	1.4	0.2	31.3	32.5
Botswana	859	45.6	20.7	45.6	12.4	20.0	0.9	0.4	45.5	45.8
Canada	1237	56.6	20.4	56.6	15.6	5.8	1.0	0.6	51.4	62.3
Chile	694	43.3	36.7	43.3	10.6	6.1	3.3	0.0	40.8	45.3
Chinese Taipei	823	60.1	28.9	60.1	5.9	4.7	0.5	0.0	55.8	64.1
Egypt	1119	29.0	39.1	29.0	12.3	15.7	3.9	0.0	28.1	30.1
England	681	55.2	17.3	55.2	19.6	6.7	0.9	0.3	51.1	59.0
Georgia	574	51.9	19.1	51.9	10.4	15.9	2.4	0.3	50.4	53.2
Hong Kong SAR	601	39.0	34.3	39.0	19.1	5.0	2.6	0.0	33.1	44.5
Hungary	703	63.3	13.3	63.3	13.3	8.8	1.3	0.0	61.4	65.2
Iran, Islamic Rep. of	891	29.2	30.8	29.2	11.3	26.7	2.1	0.0	29.3	29.0
Ireland	662	55.5	20.4	55.5	15.7	7.1	1.1	0.2	52.7	58.5
Israel	790	57.6	14.4	57.6	14.5	10.3	3.1	0.0	55.0	60.2
Italy	640	64.0	16.8	64.0	9.8	7.9	1.4	0.0	60.6	67.6
Japan	682	74.5	17.2	74.5	5.9	1.9	0.3	0.1	72.4	76.5
Jordan	1126	29.2	38.5	29.2	11.8	18.4	2.2	0.0	30.4	28.1
Kazakhstan	702	47.4	26.5	47.4	13.0	11.2	1.9	0.1	41.7	53.0
Korea, Rep. of	763	61.6	20.3	61.6	6.9	10.1	1.0	0.0	53.5	68.4
Kuwait	670	25.8	45.3	25.8	8.7	14.5	4.8	0.9	25.0	26.3
Lebanon	526	41.1	21.0	41.1	15.5	16.4	5.0	1.0	38.3	44.1
Lithuania	633	55.8	22.2	55.8	12.6	7.3	2.1	0.0	53.1	58.2
Malaysia	1401	35.6	29.8	35.6	13.6	19.1	1.6	0.3	34.9	36.4
Malta	550	60.2	16.8	60.2	11.4	10.0	1.5	0.2	55.4	64.6
Morocco	1870	39.1	26.1	39.1	8.5	22.5	3.7	0.1	41.3	37.4
New Zealand	1151	55.9	20.3	55.9	16.2	5.9	1.4	0.3	50.9	61.3
Norway	677	43.6	12.6	43.6	37.5	4.7	1.2	0.4	39.1	47.9
Oman	1262	36.4	40.7	36.4	9.7	11.3	1.7	0.1	36.2	36.6
Qatar	783	39.5	30.1	39.5	13.3	14.0	2.7	0.3	39.9	39.1
Russian Federation	684	63.8	10.9	63.8	14.3	9.6	1.3	0.0	63.7	64.0
Saudi Arabia	536	22.5	54.2	22.5	12.0	10.2	0.9	0.2	14.7	30.9
Singapore	873	47.8	31.1	47.8	15.2	4.4	1.5	0.0	40.9	53.8
Slovenia	615	64.0	14.9	64.0	11.3	8.7	1.1	0.0	63.8	64.2
South Africa	1794	29.7	19.2	29.7	14.8	34.3	1.5	0.5	29.1	30.4
Sweden	581	63.1	14.7	63.1	12.6	5.8	3.5	0.2	60.2	65.8
Thailand	931	44.2	30.0	44.2	6.5	18.0	1.1	0.1	43.9	44.6
Turkey	875	35.2	36.2	35.2	11.4	16.0	1.2	0.0	30.5	39.5
United Arab Emirates	2562	41.0	30.9	41.0	12.6	13.3	2.2	0.0	38.1	43.9
United States	1452	60.3	21.6	60.3	12.7	4.4	0.6	0.4	56.5	64.1
International Avg (n=39)	36147	47.6	25.8	47.6	13.0	11.5	1.9	0.2	44.9	50.3
Buenos Aires, Argentina	462	49.8	18.9	49.8	9.7	12.2	7.0	2.5	48.4	51.2
Ontario, Canada	638	56.8	20.0	56.8	17.0	4.5	0.7	1.0	49.9	63.9
Quebec, Canada	557	52.4	23.2	52.4	15.1	7.6	1.7	0.0	47.5	58.1
Norway (8)	680	36.7	18.4	36.7	36.0	6.9	2.0	0.0	30.3	44.3
Abu Dhabi, UAE	685	36.5	34.2	36.5	14.7	11.6	2.9	0.0	33.6	39.3
Dubai, UAE	880	53.2	20.5	53.2	11.9	12.9	1.4	0.0	51.3	55.3
Florida, US	295	60.3	26.4	60.3	7.3	4.9	0.6	0.5	53.9	65.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_02A (S052092A): Biology / Knowing Type: CR 1 Point
Label: Features of animal groups: mammals

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	67.1	29.3	67.1	3.5	0.1	65.6	68.8
Bahrain	706	59.4	33.6	59.4	6.6	0.4	69.3	50.6
Botswana	859	34.1	61.6	34.1	3.9	0.4	36.3	31.6
Canada	1238	59.0	39.2	59.0	1.2	0.6	56.0	62.2
Chile	694	61.2	31.6	61.2	7.1	0.0	61.1	61.3
Chinese Taipei	823	66.8	32.8	66.8	0.4	0.0	69.7	64.2
Egypt	1119	27.3	61.2	27.3	11.4	0.2	26.2	28.5
England	681	62.4	35.6	62.4	1.6	0.3	62.2	62.6
Georgia	574	60.4	32.1	60.4	7.2	0.3	63.1	58.2
Hong Kong SAR	601	68.2	31.1	68.2	0.7	0.0	66.9	69.4
Hungary	703	75.6	23.8	75.6	0.6	0.0	77.8	73.3
Iran, Islamic Rep. of	891	48.4	47.2	48.4	4.4	0.0	46.4	50.2
Ireland	662	57.1	40.4	57.1	2.2	0.2	58.3	56.0
Israel	790	58.5	37.4	58.5	4.1	0.0	61.5	55.5
Italy	639	75.6	23.4	75.6	1.0	0.0	73.1	78.3
Japan	682	79.0	19.1	79.0	1.8	0.1	78.9	79.2
Jordan	1126	54.1	41.0	54.1	4.9	0.0	57.3	51.2
Kazakhstan	702	86.8	11.6	86.8	1.5	0.1	89.1	84.6
Korea, Rep. of	763	49.2	48.2	49.2	2.6	0.0	44.1	53.4
Kuwait	670	36.5	45.9	36.5	16.7	0.9	39.3	33.8
Lebanon	553	38.1	54.2	38.1	6.8	0.9	36.3	40.1
Lithuania	633	66.0	30.6	66.0	3.4	0.0	65.9	66.1
Malaysia	1401	58.0	38.0	58.0	3.5	0.5	60.2	55.8
Malta	550	59.2	36.6	59.2	4.0	0.2	63.2	55.5
Morocco	1870	37.7	57.2	37.7	4.9	0.2	41.1	35.0
New Zealand	1151	55.9	40.8	55.9	3.0	0.3	54.2	57.8
Norway	677	55.5	41.7	55.5	2.4	0.4	55.8	55.3
Oman	1260	51.4	43.3	51.4	5.1	0.1	58.2	45.0
Qatar	783	47.1	44.4	47.1	8.2	0.3	48.6	45.5
Russian Federation	684	73.7	21.8	73.7	4.5	0.0	72.6	74.8
Saudi Arabia	536	42.3	49.5	42.3	8.0	0.2	48.9	35.2
Singapore	873	71.8	27.7	71.8	0.5	0.0	70.4	73.1
Slovenia	615	62.4	36.4	62.4	1.1	0.0	65.2	60.3
South Africa	1794	26.3	70.4	26.3	2.8	0.5	25.9	26.6
Sweden	581	59.7	37.7	59.7	2.1	0.5	62.1	57.9
Thailand	931	57.4	38.4	57.4	4.0	0.1	59.0	55.7
Turkey	875	31.1	67.6	31.1	1.2	0.2	34.3	28.2
United Arab Emirates	2562	54.6	40.2	54.6	5.2	0.0	55.7	53.6
United States	1452	60.8	37.1	60.8	1.7	0.4	58.1	63.4
International Avg (n=39)	36172	56.3	39.5	56.3	4.0	0.2	57.4	55.3
Buenos Aires, Argentina	464	50.7	35.9	50.7	10.7	2.7	53.7	47.8
Ontario, Canada	637	56.7	40.6	56.7	1.6	1.0	54.9	58.5
Quebec, Canada	559	63.6	36.4	63.6	0.0	0.0	60.3	67.6
Norway (8)	680	47.5	49.9	47.5	2.5	0.0	49.6	45.1
Abu Dhabi, UAE	685	43.5	49.3	43.5	7.2	0.0	47.8	39.5
Dubai, UAE	880	64.2	33.4	64.2	2.4	0.0	64.5	64.0
Florida, US	295	50.0	43.9	50.0	5.3	0.9	45.3	53.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_02B (S052092B): Biology / Knowing Type: CR 1 Point
Label: Features of animal groups: amphibians

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	33.1	61.3	33.1	5.6	0.1	32.2	34.1
Bahrain	706	34.4	57.8	34.4	7.3	0.4	41.9	27.8
Botswana	859	23.1	70.4	23.1	6.2	0.4	21.6	24.7
Canada	1238	24.8	72.0	24.8	2.6	0.6	22.5	27.3
Chile	694	27.0	62.4	27.0	10.6	0.0	26.4	27.5
Chinese Taipei	823	36.1	62.3	36.1	1.6	0.0	34.7	37.4
Egypt	1119	16.5	69.9	16.5	13.4	0.2	16.8	16.3
England	681	30.2	65.6	30.2	3.9	0.3	28.2	32.1
Georgia	574	35.2	54.9	35.2	9.6	0.3	36.9	33.8
Hong Kong SAR	601	29.1	68.7	29.1	2.2	0.0	29.6	28.6
Hungary	703	24.3	72.8	24.3	2.8	0.0	21.5	27.2
Iran, Islamic Rep. of	891	23.6	69.5	23.6	6.9	0.0	20.8	26.1
Ireland	662	24.2	71.8	24.2	3.8	0.2	23.4	25.0
Israel	790	27.7	67.1	27.7	5.2	0.0	27.0	28.3
Italy	640	29.9	67.6	29.9	2.5	0.0	27.1	32.9
Japan	682	29.7	68.2	29.7	2.1	0.1	29.6	29.7
Jordan	1126	27.6	65.7	27.6	6.7	0.0	28.8	26.5
Kazakhstan	702	77.3	19.8	77.3	2.9	0.1	79.4	75.2
Korea, Rep. of	763	28.6	66.1	28.6	5.3	0.0	22.4	33.7
Kuwait	670	20.2	61.2	20.2	17.7	0.9	23.5	17.0
Lebanon	553	21.1	67.4	21.1	10.5	0.9	21.9	20.3
Lithuania	633	44.4	41.8	44.4	13.8	0.0	44.7	44.1
Malaysia	1401	43.3	52.5	43.3	3.7	0.5	44.4	42.1
Malta	550	32.4	62.1	32.4	5.3	0.2	36.9	28.3
Morocco	1870	26.1	66.3	26.1	7.4	0.2	26.4	25.8
New Zealand	1151	29.2	64.2	29.2	6.3	0.3	30.3	28.1
Norway	677	23.6	71.5	23.6	4.5	0.4	25.1	22.3
Oman	1262	32.4	60.9	32.4	6.5	0.1	35.5	29.5
Qatar	783	26.2	63.7	26.2	9.8	0.3	25.8	26.7
Russian Federation	684	38.7	56.3	38.7	5.0	0.0	37.8	39.6
Saudi Arabia	536	21.2	69.1	21.2	9.5	0.2	25.1	16.9
Singapore	873	34.3	64.1	34.3	1.5	0.0	32.3	36.1
Slovenia	615	32.7	65.3	32.7	2.0	0.0	26.8	37.4
South Africa	1794	12.3	83.0	12.3	4.2	0.5	12.5	11.9
Sweden	581	39.5	56.2	39.5	3.9	0.5	39.9	39.3
Thailand	931	45.8	48.8	45.8	5.3	0.1	42.8	49.2
Turkey	875	53.8	41.1	53.8	4.8	0.2	54.6	53.2
United Arab Emirates	2560	27.3	66.3	27.3	6.4	0.0	27.6	26.9
United States	1452	25.3	71.8	25.3	2.5	0.4	22.6	28.0
International Avg (n=39)	36173	31.1	62.8	31.1	5.9	0.2	31.0	31.2
Buenos Aires, Argentina	464	24.5	57.4	24.5	15.3	2.7	23.4	25.4
Ontario, Canada	637	23.2	73.2	23.2	2.6	1.0	20.3	26.4
Quebec, Canada	559	27.6	70.2	27.6	2.2	0.0	26.5	28.9
Norway (8)	680	22.6	73.6	22.6	3.8	0.0	22.8	22.2
Abu Dhabi, UAE	684	20.3	71.0	20.3	8.6	0.0	21.8	18.9
Dubai, UAE	880	32.4	64.3	32.4	3.4	0.0	33.4	31.3
Florida, US	295	23.2	69.8	23.2	6.1	0.9	19.8	25.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_02C (S052092C): Biology / Knowing Type: CR 1 Point
Label: Features of animal groups: fish

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	54.6	41.9	54.6	3.4	0.1	54.0	55.2
Bahrain	706	50.9	42.4	50.9	6.3	0.4	59.1	43.5
Botswana	859	28.9	65.7	28.9	5.0	0.4	29.5	28.3
Canada	1238	46.1	52.2	46.1	1.1	0.6	44.2	48.5
Chile	694	32.6	61.7	32.6	5.7	0.0	29.7	35.1
Chinese Taipei	823	54.4	45.2	54.4	0.4	0.0	53.0	55.8
Egypt	1119	18.8	67.5	18.8	13.6	0.2	17.2	20.5
England	681	49.5	48.6	49.5	1.5	0.3	47.1	51.9
Georgia	574	53.0	39.5	53.0	7.2	0.3	58.4	48.6
Hong Kong SAR	601	37.3	61.8	37.3	0.9	0.0	32.3	41.9
Hungary	703	42.6	56.4	42.6	1.0	0.0	40.5	44.8
Iran, Islamic Rep. of	891	51.8	44.2	51.8	4.0	0.0	51.7	51.9
Ireland	662	44.7	52.7	44.7	2.3	0.2	47.9	41.4
Israel	790	53.9	41.4	53.9	4.7	0.0	51.1	56.6
Italy	640	45.2	54.0	45.2	0.8	0.0	43.1	47.5
Japan	682	68.6	29.7	68.6	1.5	0.1	64.5	72.5
Jordan	1126	37.0	56.5	37.0	6.4	0.0	39.5	34.7
Kazakhstan	702	83.3	15.1	83.3	1.5	0.1	85.1	81.5
Korea, Rep. of	763	50.0	48.3	50.0	1.6	0.0	46.8	52.7
Kuwait	670	30.6	52.0	30.6	16.5	0.9	35.2	26.0
Lebanon	553	30.0	61.8	30.0	7.3	0.9	32.2	27.6
Lithuania	633	45.2	51.7	45.2	3.0	0.0	42.4	47.9
Malaysia	1401	72.1	24.2	72.1	3.3	0.5	69.7	74.4
Malta	550	42.4	52.5	42.4	4.9	0.2	47.1	38.1
Morocco	1870	33.8	59.4	33.8	6.6	0.2	32.4	34.9
New Zealand	1151	53.9	42.9	53.9	2.9	0.3	54.5	53.3
Norway	677	36.3	60.3	36.3	3.0	0.4	40.1	32.7
Oman	1261	40.7	54.2	40.7	5.0	0.1	44.8	36.8
Qatar	783	38.2	52.4	38.2	9.1	0.3	39.6	36.7
Russian Federation	684	67.9	28.0	67.9	4.1	0.0	67.1	68.6
Saudi Arabia	536	31.6	59.1	31.6	9.1	0.2	36.4	26.3
Singapore	873	67.4	32.2	67.4	0.4	0.0	64.8	69.6
Slovenia	615	53.9	45.2	53.9	0.9	0.0	48.8	57.9
South Africa	1794	21.2	74.6	21.2	3.7	0.5	22.3	19.9
Sweden	581	47.6	49.0	47.6	2.9	0.5	45.4	49.8
Thailand	931	62.0	33.9	62.0	4.0	0.1	61.7	62.5
Turkey	875	46.6	51.8	46.6	1.5	0.2	47.7	45.5
United Arab Emirates	2562	42.4	52.4	42.4	5.2	0.0	45.2	39.6
United States	1452	45.6	52.3	45.6	1.7	0.4	44.3	46.9
International Avg (n=39)	36174	46.5	49.1	46.5	4.2	0.2	46.6	46.3
Buenos Aires, Argentina	464	31.5	55.9	31.5	9.9	2.7	25.0	36.8
Ontario, Canada	637	44.8	52.4	44.8	1.8	1.0	43.6	46.3
Quebec, Canada	559	46.0	54.0	46.0	0.0	0.0	42.3	50.5
Norway (8)	680	32.9	64.5	32.9	2.5	0.0	32.8	33.1
Abu Dhabi, UAE	685	35.9	57.2	35.9	6.8	0.0	42.2	30.1
Dubai, UAE	880	51.2	46.2	51.2	2.5	0.0	52.8	49.5
Florida, US	295	46.9	47.9	46.9	4.2	0.9	49.5	44.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_02D (S052092D): Biology / Knowing Type: CR 1 Point
Label: Features of animal groups: birds

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	75.3	21.0	75.3	3.7	0.1	79.1	71.1
Bahrain	706	63.1	30.3	63.1	6.2	0.4	72.0	55.2
Botswana	859	54.0	40.3	54.0	5.3	0.4	57.9	49.6
Canada	1238	73.1	25.3	73.1	1.0	0.6	74.9	71.4
Chile	694	70.7	23.4	70.7	5.9	0.0	72.7	69.0
Chinese Taipei	823	52.5	47.2	52.5	0.4	0.0	54.1	50.9
Egypt	1119	42.7	44.8	42.7	12.3	0.2	42.1	43.4
England	681	74.8	23.2	74.8	1.6	0.3	75.7	74.0
Georgia	574	65.8	26.5	65.8	7.4	0.3	75.4	57.9
Hong Kong SAR	601	54.5	44.4	54.5	1.1	0.0	58.2	51.1
Hungary	703	85.9	12.4	85.9	1.8	0.0	91.0	80.6
Iran, Islamic Rep. of	891	56.4	39.7	56.4	3.8	0.0	58.1	54.9
Ireland	662	71.6	25.6	71.6	2.5	0.2	73.5	69.6
Israel	790	64.5	30.9	64.5	4.6	0.0	65.8	63.2
Italy	640	76.9	22.5	76.9	0.6	0.0	76.3	77.6
Japan	682	52.4	46.1	52.4	1.4	0.1	58.9	46.5
Jordan	1126	64.1	29.5	64.1	6.4	0.0	70.8	57.9
Kazakhstan	702	87.2	11.3	87.2	1.5	0.1	88.8	85.7
Korea, Rep. of	763	38.7	58.7	38.7	2.6	0.0	41.9	36.1
Kuwait	670	45.5	36.9	45.5	16.7	0.9	51.2	39.8
Lebanon	553	43.4	47.7	43.4	7.9	0.9	42.1	44.9
Lithuania	633	72.0	25.0	72.0	3.0	0.0	77.8	66.6
Malaysia	1401	64.6	31.3	64.6	3.6	0.5	66.9	62.4
Malta	550	69.4	24.9	69.4	5.6	0.2	69.8	69.1
Morocco	1870	59.1	35.7	59.1	5.0	0.2	60.8	57.8
New Zealand	1151	72.6	24.2	72.6	2.9	0.3	74.5	70.5
Norway	677	75.6	20.8	75.6	3.2	0.4	80.0	71.4
Oman	1261	60.4	34.2	60.4	5.2	0.1	66.2	55.0
Qatar	783	54.4	36.6	54.4	8.7	0.3	56.6	52.1
Russian Federation	684	81.7	13.8	81.7	4.6	0.0	82.6	80.7
Saudi Arabia	536	50.0	41.0	50.0	8.8	0.2	56.8	42.6
Singapore	873	85.1	14.5	85.1	0.4	0.0	82.6	87.3
Slovenia	615	75.4	23.5	75.4	1.1	0.0	77.2	73.9
South Africa	1794	34.4	60.8	34.4	4.3	0.5	37.3	31.2
Sweden	581	68.2	28.5	68.2	2.8	0.5	69.1	67.9
Thailand	931	38.3	57.3	38.3	4.3	0.1	35.9	41.0
Turkey	875	42.5	55.8	42.5	1.5	0.2	41.5	43.4
United Arab Emirates	2562	62.5	31.8	62.5	5.6	0.0	66.1	59.0
United States	1452	67.1	30.7	67.1	1.8	0.4	69.0	65.2
International Avg (n=39)	36174	62.7	32.8	62.7	4.3	0.2	65.4	60.2
Buenos Aires, Argentina	464	56.8	31.2	56.8	9.2	2.7	60.5	53.9
Ontario, Canada	637	71.3	26.1	71.3	1.6	1.0	74.9	67.8
Quebec, Canada	559	79.3	20.5	79.3	0.2	0.0	80.3	78.1
Norway (8)	680	72.1	25.2	72.1	2.7	0.0	72.4	71.9
Abu Dhabi, UAE	685	55.9	36.3	55.9	7.8	0.0	61.8	50.4
Dubai, UAE	880	69.3	28.3	69.3	2.4	0.0	72.9	65.5
Florida, US	295	61.5	32.8	61.5	4.8	0.9	61.1	61.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_02Z (S052092Z): Biology / Knowing Type: CR 2 Points
Label: Features of animal groups (DERIVED)

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	25.1	47.5	24.6	72.5	25.1	2.8	0.1	24.0	26.2
Bahrain	706	28.7	31.9	33.3	60.6	28.7	5.6	0.4	35.5	22.6
Botswana	859	13.0	29.3	54.5	42.3	13.0	2.9	0.4	11.9	14.2
Canada	1238	16.9	48.3	33.2	65.2	16.9	1.0	0.6	14.2	20.0
Chile	694	17.0	46.0	31.5	63.1	17.0	5.4	0.0	16.8	17.2
Chinese Taipei	823	16.2	52.4	31.0	68.6	16.2	0.4	0.0	14.6	17.7
Egypt	1119	6.9	26.0	56.4	32.9	6.9	10.5	0.2	4.9	9.0
England	681	23.6	45.3	29.6	68.9	23.6	1.1	0.3	21.5	25.6
Georgia	574	23.3	44.7	24.7	68.1	23.3	6.9	0.3	25.6	21.5
Hong Kong SAR	601	12.6	48.1	38.5	60.7	12.6	0.7	0.0	12.1	13.0
Hungary	703	14.7	66.0	18.7	80.7	14.7	0.6	0.0	12.8	16.6
Iran, Islamic Rep. of	891	13.7	42.8	39.9	56.5	13.7	3.5	0.0	11.3	15.9
Ireland	662	18.1	45.6	34.0	63.7	18.1	2.1	0.2	18.9	17.3
Israel	790	18.9	46.1	31.2	65.0	18.9	3.8	0.0	16.8	21.0
Italy	639	19.9	54.0	25.5	74.0	19.9	0.6	0.0	16.4	23.7
Japan	682	16.9	58.5	23.3	75.3	16.9	1.2	0.1	16.9	16.8
Jordan	1126	19.4	37.2	38.9	56.6	19.4	4.4	0.0	20.2	18.7
Kazakhstan	702	72.5	16.6	9.5	89.1	72.5	1.4	0.1	74.3	70.6
Korea, Rep. of	763	13.7	35.9	49.1	49.6	13.7	1.3	0.0	11.5	15.5
Kuwait	670	10.5	30.4	42.6	41.0	10.5	15.5	0.9	12.8	8.3
Lebanon	553	14.0	24.1	54.9	38.0	14.0	6.1	0.9	15.0	12.8
Lithuania	633	23.1	49.3	24.6	72.4	23.1	3.0	0.0	20.0	25.9
Malaysia	1401	31.6	40.7	24.2	72.3	31.6	2.9	0.5	32.5	30.7
Malta	550	23.1	41.2	31.7	64.3	23.1	3.8	0.2	26.2	20.2
Morocco	1870	13.3	34.3	48.7	47.6	13.3	3.5	0.2	13.1	13.4
New Zealand	1151	21.4	45.2	30.3	66.5	21.4	2.9	0.3	22.5	20.2
Norway	677	18.0	42.1	37.5	60.1	18.0	1.9	0.4	19.2	17.0
Oman	1260	19.2	38.7	37.8	57.9	19.2	4.1	0.1	20.8	17.7
Qatar	783	14.2	38.0	39.7	52.2	14.2	7.8	0.3	13.4	15.0
Russian Federation	684	30.9	50.9	14.0	81.8	30.9	4.1	0.0	29.2	32.6
Saudi Arabia	536	11.5	34.0	46.7	45.5	11.5	7.6	0.2	13.9	8.9
Singapore	873	26.6	56.3	16.8	82.8	26.6	0.4	0.0	24.4	28.5
Slovenia	615	15.7	58.5	25.1	74.2	15.7	0.7	0.0	12.1	18.5
South Africa	1794	5.0	21.4	71.1	26.4	5.0	1.9	0.5	5.4	4.7
Sweden	581	24.3	43.5	29.9	67.7	24.3	1.9	0.5	22.6	25.7
Thailand	931	22.2	42.4	31.8	64.6	22.2	3.5	0.1	20.7	23.9
Turkey	875	16.0	37.2	45.6	53.2	16.0	1.1	0.2	17.3	14.7
United Arab Emirates	2560	16.6	43.8	35.3	60.4	16.6	4.2	0.0	15.8	17.4
United States	1452	16.7	48.4	32.9	65.1	16.7	1.6	0.4	14.7	18.7
International Avg (n=39)	36170	19.6	42.1	34.6	61.7	19.6	3.5	0.2	19.3	19.9
Buenos Aires, Argentina	464	13.6	37.7	37.2	51.3	13.6	8.8	2.7	11.9	14.8
Ontario, Canada	637	14.6	49.1	33.8	63.7	14.6	1.6	1.0	12.0	17.4
Quebec, Canada	559	19.3	52.1	28.6	71.4	19.3	0.0	0.0	16.0	23.2
Norway (8)	680	15.3	41.3	41.1	56.6	15.3	2.4	0.0	14.7	16.0
Abu Dhabi, UAE	684	12.1	38.3	44.4	50.3	12.1	5.2	0.0	13.2	11.0
Dubai, UAE	880	20.9	49.0	28.0	70.0	20.9	2.0	0.0	20.0	21.9
Florida, US	295	15.2	45.2	34.7	60.4	15.2	4.1	0.9	12.0	17.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_03A (S052263A): Biology / Reasoning Type: CR 1 Point
Label: Cellular respiration: tubes 1 & 2

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	15.6	60.7	15.6	23.6	0.1	12.7	18.9
Bahrain	706	8.5	56.9	8.5	34.2	0.4	8.3	8.6
Botswana	860	4.3	79.9	4.3	15.3	0.4	5.8	2.6
Canada	1238	18.6	57.3	18.6	23.5	0.6	16.8	20.7
Chile	694	11.6	33.3	11.6	55.1	0.0	11.4	11.8
Chinese Taipei	823	23.2	51.2	23.2	25.6	0.0	20.5	25.7
Egypt	1120	3.9	64.3	3.9	31.4	0.5	4.0	3.7
England	681	24.2	55.2	24.2	20.2	0.3	23.9	24.5
Georgia	574	5.9	27.8	5.9	66.0	0.3	6.5	5.3
Hong Kong SAR	601	30.7	51.8	30.7	17.6	0.0	29.1	32.2
Hungary	703	14.2	38.9	14.2	47.0	0.0	13.0	15.4
Iran, Islamic Rep. of	891	8.2	43.9	8.2	47.7	0.2	9.3	7.1
Ireland	662	27.7	53.7	27.7	18.4	0.2	29.5	25.8
Israel	790	11.0	46.3	11.0	42.4	0.3	11.0	10.9
Italy	640	9.5	31.3	9.5	59.2	0.0	6.9	12.3
Japan	682	35.0	46.8	35.0	18.0	0.1	35.1	34.9
Jordan	1126	7.5	66.9	7.5	25.6	0.0	8.3	6.7
Kazakhstan	702	47.6	26.4	47.6	25.9	0.1	48.3	46.9
Korea, Rep. of	763	26.2	55.6	26.2	18.2	0.0	20.6	30.8
Kuwait	670	9.6	47.1	9.6	42.0	1.3	13.1	6.1
Lebanon	553	9.2	41.5	9.2	48.5	0.9	11.5	6.6
Lithuania	633	15.3	39.5	15.3	45.2	0.0	15.1	15.5
Malaysia	1401	10.3	62.9	10.3	26.2	0.6	8.6	11.9
Malta	550	11.3	50.7	11.3	37.8	0.2	12.2	10.4
Morocco	1872	2.6	51.2	2.6	46.0	0.2	3.6	1.8
New Zealand	1151	21.2	53.7	21.2	24.7	0.5	20.7	21.7
Norway	677	10.3	50.9	10.3	38.2	0.6	10.7	9.8
Oman	1262	6.2	71.2	6.2	22.4	0.2	8.2	4.4
Qatar	783	13.8	57.0	13.8	28.8	0.3	16.0	11.6
Russian Federation	682	21.0	31.6	21.0	47.4	0.0	19.7	22.2
Saudi Arabia	536	11.6	49.0	11.6	39.2	0.2	18.2	4.5
Singapore	873	42.6	51.8	42.6	5.6	0.0	39.5	45.3
Slovenia	615	11.7	45.4	11.7	42.9	0.0	11.3	12.1
South Africa	1794	12.8	72.0	12.8	14.6	0.6	16.0	9.2
Sweden	581	16.1	41.9	16.1	41.5	0.5	14.6	17.4
Thailand	931	4.0	58.5	4.0	37.3	0.2	4.1	3.9
Turkey	875	11.3	59.0	11.3	29.0	0.7	14.0	8.8
United Arab Emirates	2562	10.0	66.7	10.0	23.2	0.1	11.2	8.9
United States	1452	15.2	74.6	15.2	9.7	0.5	14.1	16.4
International Avg (n=39)	36177	15.4	51.9	15.4	32.4	0.3	15.5	15.2
Buenos Aires, Argentina	464	1.1	17.9	1.1	77.9	3.1	0.5	1.6
Ontario, Canada	637	18.6	57.6	18.6	22.8	1.0	18.3	19.1
Quebec, Canada	559	17.7	56.9	17.7	25.4	0.0	13.8	22.3
Norway (8)	680	7.3	48.8	7.3	43.9	0.0	5.7	9.3
Abu Dhabi, UAE	685	8.1	69.8	8.1	21.9	0.2	10.1	6.2
Dubai, UAE	880	13.2	67.2	13.2	19.6	0.0	12.4	14.0
Florida, US	295	9.6	71.5	9.6	18.0	0.9	4.7	13.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_03B (S052263B): Biology / Reasoning Type: CR 1 Point
Label: Cellular respiration: tube 4

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	20.9	55.0	20.9	24.1	0.1	17.1	25.1
Bahrain	706	16.5	52.4	16.5	30.6	0.4	18.1	15.0
Botswana	860	5.4	75.5	5.4	18.3	0.7	6.0	4.7
Canada	1238	24.6	52.6	24.6	21.7	1.0	23.4	26.1
Chile	694	9.5	41.1	9.5	48.9	0.5	6.5	12.0
Chinese Taipei	823	28.2	54.7	28.2	17.1	0.0	28.7	27.8
Egypt	1120	4.5	63.1	4.5	32.0	0.5	4.0	5.0
England	681	25.5	53.7	25.5	20.4	0.3	27.5	23.6
Georgia	574	7.3	25.5	7.3	66.9	0.3	9.2	5.7
Hong Kong SAR	601	50.2	35.0	50.2	14.8	0.0	49.5	50.9
Hungary	703	18.6	37.9	18.6	43.6	0.0	16.2	21.0
Iran, Islamic Rep. of	891	7.6	44.8	7.6	47.1	0.5	7.1	7.9
Ireland	662	35.1	50.5	35.1	14.2	0.2	37.8	32.2
Israel	790	18.2	42.9	18.2	38.2	0.7	17.2	19.2
Italy	639	15.7	35.6	15.7	48.7	0.0	13.0	18.7
Japan	682	52.7	37.4	52.7	9.8	0.1	54.8	50.7
Jordan	1126	9.5	67.3	9.5	23.2	0.0	10.3	8.7
Kazakhstan	702	42.4	29.2	42.4	28.4	0.1	41.5	43.3
Korea, Rep. of	763	42.6	44.6	42.6	12.9	0.0	39.6	45.0
Kuwait	670	12.2	46.6	12.2	39.9	1.3	13.4	11.1
Lebanon	553	13.7	37.9	13.7	46.8	1.5	15.3	12.0
Lithuania	633	25.0	31.1	25.0	43.9	0.0	25.3	24.7
Malaysia	1401	15.2	61.0	15.2	22.9	0.8	13.7	16.7
Malta	550	10.9	50.6	10.9	38.3	0.2	13.7	8.3
Morocco	1872	6.2	52.4	6.2	41.0	0.3	7.0	5.6
New Zealand	1151	23.4	52.2	23.4	23.9	0.5	21.8	25.2
Norway	677	12.7	44.8	12.7	41.8	0.7	9.9	15.3
Oman	1261	11.3	67.6	11.3	20.8	0.3	15.4	7.5
Qatar	783	14.2	59.1	14.2	26.1	0.5	14.1	14.4
Russian Federation	683	29.5	27.8	29.5	42.7	0.0	29.2	29.8
Saudi Arabia	536	9.1	52.4	9.1	38.3	0.2	13.8	4.1
Singapore	873	58.9	36.4	58.9	4.7	0.0	56.7	60.9
Slovenia	615	18.9	43.1	18.9	37.8	0.2	19.0	18.9
South Africa	1794	6.3	70.9	6.3	21.7	1.0	6.2	6.5
Sweden	581	17.5	43.0	17.5	38.8	0.7	19.4	16.0
Thailand	931	6.8	54.1	6.8	38.8	0.3	6.5	7.0
Turkey	875	12.1	58.7	12.1	28.5	0.7	12.3	12.0
United Arab Emirates	2562	15.2	61.5	15.2	23.2	0.1	17.2	13.2
United States	1452	19.1	69.5	19.1	10.7	0.7	18.6	19.5
International Avg (n=39)	36176	19.8	49.2	19.8	30.6	0.4	19.9	19.8
Buenos Aires, Argentina	464	3.3	14.7	3.3	78.3	3.6	2.1	4.5
Ontario, Canada	637	23.9	52.7	23.9	22.2	1.2	23.1	24.9
Quebec, Canada	559	25.7	49.8	25.7	23.6	1.0	23.8	27.9
Norway (8)	680	9.2	43.8	9.2	47.0	0.0	9.6	8.7
Abu Dhabi, UAE	685	12.8	63.3	12.8	23.6	0.2	15.3	10.5
Dubai, UAE	880	21.3	59.4	21.3	19.3	0.0	22.1	20.4
Florida, US	295	12.1	67.4	12.1	19.6	0.9	11.1	12.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_04 (S052265): Biology / Applying Type: CR 1 Point
Label: Manx cats bred together

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	42.6	21.7	34.8	42.6	0.9	0.1	43.2	41.9
Bahrain	706	19.4	18.5	60.2	19.4	1.5	0.4	26.7	12.9
Botswana	860	16.9	11.2	68.5	16.9	2.3	1.0	21.6	11.6
Canada	1238	45.6	18.5	33.7	45.6	1.2	1.0	47.9	42.9
Chile	694	22.1	20.7	53.2	22.1	3.4	0.5	19.5	24.3
Chinese Taipei	823	27.4	12.1	59.8	27.4	0.7	0.0	30.6	24.3
Egypt	1120	10.8	4.5	80.6	10.8	3.6	0.5	12.1	9.4
England	681	58.0	17.3	23.4	58.0	1.0	0.3	64.0	52.3
Georgia	574	11.3	28.8	58.2	11.3	1.5	0.3	12.1	10.6
Hong Kong SAR	601	36.4	9.0	53.7	36.4	1.0	0.0	41.0	32.0
Hungary	703	20.9	14.9	63.3	20.9	0.9	0.0	23.9	17.9
Iran, Islamic Rep. of	891	43.2	25.9	29.1	43.2	1.2	0.6	52.2	35.1
Ireland	662	40.6	21.1	37.5	40.6	0.6	0.2	47.1	33.7
Israel	790	42.4	19.7	34.7	42.4	2.5	0.7	45.3	39.5
Italy	639	15.3	17.2	64.9	15.3	2.5	0.1	15.2	15.5
Japan	682	29.3	12.3	57.4	29.3	0.8	0.1	30.0	28.7
Jordan	1126	19.3	14.4	65.2	19.3	1.0	0.0	23.2	15.8
Kazakhstan	702	59.5	2.3	37.6	59.5	0.6	0.1	57.8	61.1
Korea, Rep. of	763	2.9	54.3	42.3	2.9	0.5	0.0	2.8	3.0
Kuwait	670	22.1	14.9	58.2	22.1	3.4	1.3	25.0	19.2
Lebanon	552	6.5	21.0	60.6	6.5	10.4	1.4	5.4	7.8
Lithuania	633	37.2	17.2	45.4	37.2	0.2	0.0	44.5	30.4
Malaysia	1401	45.4	18.0	33.5	45.4	1.9	1.2	48.5	42.4
Malta	550	19.9	30.6	48.1	19.9	1.2	0.2	20.4	19.4
Morocco	1872	11.0	28.8	56.0	11.0	3.8	0.4	14.1	8.6
New Zealand	1151	38.1	21.0	39.3	38.1	1.1	0.5	37.7	38.5
Norway	677	35.7	33.1	29.5	35.7	1.1	0.7	38.1	33.4
Oman	1261	23.1	19.5	54.9	23.1	2.2	0.3	30.4	16.2
Qatar	782	21.7	13.9	60.9	21.7	3.0	0.5	24.8	18.5
Russian Federation	683	36.8	20.5	41.9	36.8	0.7	0.0	37.9	35.7
Saudi Arabia	536	9.2	2.0	86.4	9.2	2.3	0.2	12.4	5.7
Singapore	873	60.5	13.4	25.6	60.5	0.4	0.0	62.6	58.7
Slovenia	615	38.2	14.8	46.7	38.2	0.1	0.2	44.2	33.5
South Africa	1794	9.9	7.8	79.4	9.9	1.7	1.2	11.7	8.0
Sweden	581	36.9	24.1	37.0	36.9	1.2	0.7	38.1	36.2
Thailand	931	28.8	20.4	48.5	28.8	1.9	0.3	29.4	28.2
Turkey	875	40.7	21.5	36.8	40.7	0.3	0.7	45.0	36.8
United Arab Emirates	2562	26.5	18.9	52.6	26.5	1.9	0.1	29.9	23.0
United States	1452	51.2	22.8	24.2	51.2	1.1	0.7	52.7	49.7
International Avg (n=39)	36174	29.8	18.7	49.3	29.8	1.7	0.4	32.5	27.2
Buenos Aires, Argentina	464	17.3	14.4	57.5	17.3	7.2	3.6	21.1	14.2
Ontario, Canada	637	45.6	22.2	29.9	45.6	1.1	1.2	48.4	42.2
Quebec, Canada	559	46.5	10.9	40.1	46.5	1.6	1.0	46.3	46.6
Norway (8)	680	28.5	33.6	35.9	28.5	2.0	0.0	28.8	28.0
Abu Dhabi, UAE	685	26.7	14.5	56.4	26.7	2.2	0.2	33.3	20.6
Dubai, UAE	880	35.7	23.9	38.5	35.7	1.8	0.1	38.7	32.5
Florida, US	295	45.3	18.3	34.7	45.3	0.8	0.9	50.1	41.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_05 (S052280): Chemistry / Knowing Type: MC Key: A
Label: Property of nonmetals

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	57.1	57.1	14.3	14.6	9.8	4.2	0.1	54.0	60.6
Bahrain	706	49.9	49.9	18.9	15.2	13.8	1.8	0.4	56.9	43.7
Botswana	860	64.7	64.7	9.5	10.4	10.9	3.2	1.3	69.2	59.7
Canada	1225	50.1	50.1	16.1	17.9	13.5	1.0	1.4	47.0	53.3
Chile	694	44.2	44.2	16.4	21.9	13.4	3.5	0.7	42.6	45.5
Chinese Taipei	823	69.3	69.3	12.0	13.3	4.7	0.5	0.0	69.7	69.1
Egypt	1120	39.9	39.9	21.7	21.5	14.0	2.4	0.6	41.8	37.7
England	681	67.5	67.5	11.2	10.6	6.2	4.1	0.3	68.7	66.3
Georgia	574	64.6	64.6	8.8	15.7	7.6	3.0	0.3	65.0	64.3
Hong Kong SAR	601	59.7	59.7	15.5	11.3	11.3	2.2	0.0	57.8	61.6
Hungary	703	49.1	49.1	25.3	19.2	4.7	1.7	0.0	51.1	47.0
Iran, Islamic Rep. of	891	50.8	50.8	23.0	13.3	9.9	2.3	0.6	52.0	49.8
Ireland	662	61.5	61.5	15.3	10.8	9.4	2.9	0.2	59.9	63.1
Israel	790	59.6	59.6	15.6	15.8	4.1	4.2	0.7	64.2	55.0
Italy	640	55.2	55.2	16.7	14.1	11.4	2.5	0.1	53.9	56.5
Japan	682	67.1	67.1	10.7	9.6	11.0	1.5	0.1	66.0	68.0
Jordan	1126	38.7	38.7	18.6	21.0	19.1	2.5	0.1	40.1	37.4
Kazakhstan	702	78.9	78.9	7.8	5.3	5.5	2.4	0.1	82.0	75.8
Korea, Rep. of	763	68.4	68.4	12.5	10.8	7.9	0.4	0.0	63.5	72.4
Kuwait	670	49.4	49.4	16.5	16.9	11.4	4.5	1.3	52.1	46.7
Lebanon	527	56.2	56.2	15.1	16.2	6.6	4.4	1.5	59.1	53.0
Lithuania	633	58.0	58.0	14.7	14.0	10.5	2.9	0.0	57.2	58.7
Malaysia	1401	37.6	37.6	24.4	18.6	16.9	1.3	1.3	38.3	36.9
Malta	550	52.3	52.3	15.5	16.3	11.7	4.0	0.2	54.4	50.4
Morocco	1872	30.3	30.3	24.9	22.2	17.7	4.6	0.4	31.6	29.2
New Zealand	1151	47.4	47.4	18.2	19.9	11.5	2.5	0.5	39.5	56.2
Norway	677	62.8	62.8	13.9	9.4	4.7	8.5	0.7	64.4	61.2
Oman	1261	42.7	42.7	19.9	21.4	13.6	2.1	0.3	49.1	36.7
Qatar	783	56.0	56.0	14.8	12.3	13.4	3.0	0.5	60.3	51.4
Russian Federation	684	74.3	74.3	8.8	8.2	4.7	3.9	0.1	75.5	73.2
Saudi Arabia	536	35.7	35.7	20.7	27.0	15.1	1.4	0.2	36.3	34.9
Singapore	873	83.2	83.2	5.7	6.2	4.1	0.9	0.0	83.5	83.0
Slovenia	615	60.4	60.4	9.5	16.3	3.0	10.7	0.2	63.7	57.8
South Africa	1794	38.1	38.1	22.9	18.4	16.9	2.4	1.3	38.8	37.2
Sweden	581	70.7	70.7	10.2	8.7	4.1	5.6	0.7	69.8	71.3
Thailand	931	55.2	55.2	17.0	17.5	8.5	1.4	0.3	54.6	56.0
Turkey	875	53.0	53.0	17.9	13.4	14.6	0.4	0.7	53.3	52.8
United Arab Emirates	2562	57.0	57.0	13.6	15.7	12.5	1.2	0.1	60.0	54.0
United States	1452	64.0	64.0	11.5	12.1	9.7	1.8	0.8	63.8	64.2
International Avg (n=39)	36139	55.9	55.9	15.5	14.9	10.2	2.9	0.5	56.7	55.2
Buenos Aires, Argentina	461	28.2	28.2	20.9	14.3	13.6	19.3	3.7	23.2	32.6
Ontario, Canada	633	49.3	49.3	17.5	17.4	13.6	0.8	1.3	45.5	53.2
Quebec, Canada	551	50.9	50.9	13.8	18.0	13.8	1.6	1.9	49.2	53.0
Norway (8)	680	39.0	39.0	17.2	23.5	13.0	7.3	0.0	34.5	44.3
Abu Dhabi, UAE	685	46.0	46.0	16.1	19.6	17.1	0.9	0.2	50.7	41.7
Dubai, UAE	880	74.0	74.0	9.5	9.4	5.8	1.1	0.1	74.3	73.8
Florida, US	295	57.8	57.8	13.0	17.0	9.7	1.7	0.9	52.7	61.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_06 (S052256): Chemistry / Applying Type: MC Key: D
Label: Cause distilled water taste

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	41.6	16.7	8.7	30.2	41.6	2.7	0.1	39.7	43.8
Bahrain	706	41.3	23.5	14.1	19.6	41.3	0.9	0.7	45.2	37.8
Botswana	859	21.6	34.8	10.8	28.7	21.6	2.1	2.0	23.9	19.0
Canada	1233	45.4	12.6	15.8	23.9	45.4	0.7	1.6	46.4	44.4
Chile	694	34.8	16.8	10.8	33.7	34.8	3.1	0.9	31.0	37.9
Chinese Taipei	823	64.2	18.7	3.4	12.9	64.2	0.8	0.0	66.0	62.5
Egypt	1120	25.6	34.2	13.5	21.6	25.6	4.5	0.6	28.6	22.4
England	681	49.7	13.8	7.5	26.8	49.7	1.7	0.5	51.7	47.9
Georgia	574	37.6	29.4	7.9	20.0	37.6	4.6	0.6	40.8	35.0
Hong Kong SAR	601	62.6	14.3	5.4	15.7	62.6	2.0	0.0	61.7	63.4
Hungary	703	54.7	17.7	9.0	17.6	54.7	0.9	0.0	54.2	55.2
Iran, Islamic Rep. of	891	42.2	20.8	14.8	18.3	42.2	2.8	1.1	46.8	38.1
Ireland	662	48.1	22.0	8.5	19.9	48.1	1.1	0.4	47.0	49.2
Israel	790	45.2	13.3	11.0	25.1	45.2	4.5	0.9	44.6	45.7
Italy	640	41.8	16.5	10.3	27.7	41.8	3.6	0.1	41.9	41.7
Japan	682	58.0	16.9	9.9	14.5	58.0	0.4	0.3	62.2	54.1
Jordan	1126	32.1	35.7	10.2	19.8	32.1	2.2	0.1	37.4	27.1
Kazakhstan	702	52.7	26.9	2.9	13.0	52.7	4.4	0.1	54.0	51.3
Korea, Rep. of	763	60.7	12.9	2.5	23.5	60.7	0.4	0.0	59.5	61.7
Kuwait	670	29.0	23.6	13.3	27.7	29.0	4.9	1.5	33.7	24.3
Lebanon	533	29.1	34.4	9.8	16.5	29.1	8.6	1.5	30.2	28.0
Lithuania	633	42.1	25.2	9.4	20.8	42.1	2.5	0.0	38.4	45.5
Malaysia	1401	39.2	31.1	7.5	19.5	39.2	1.2	1.5	37.7	40.7
Malta	550	39.8	25.7	12.3	20.2	39.8	1.9	0.2	43.3	36.5
Morocco	1870	28.2	35.2	15.7	16.8	28.2	3.3	0.8	31.4	25.6
New Zealand	1151	38.8	16.6	12.9	29.3	38.8	2.0	0.5	35.4	42.5
Norway	677	44.1	12.2	8.8	29.6	44.1	4.0	1.3	39.2	48.6
Oman	1261	38.8	24.8	13.7	20.4	38.8	2.1	0.3	40.2	37.4
Qatar	783	33.3	26.4	13.9	23.7	33.3	2.1	0.6	36.2	30.2
Russian Federation	684	52.8	20.9	6.3	15.8	52.8	3.7	0.6	51.2	54.3
Saudi Arabia	536	31.0	28.3	18.9	20.5	31.0	1.2	0.2	31.1	30.8
Singapore	873	70.7	9.6	5.3	13.2	70.7	1.1	0.0	69.6	71.7
Slovenia	615	43.2	23.6	10.2	18.4	43.2	4.4	0.2	44.5	42.2
South Africa	1794	24.2	26.0	14.8	30.7	24.2	2.8	1.5	26.1	22.1
Sweden	581	48.0	13.4	12.4	21.8	48.0	3.4	1.1	41.9	53.2
Thailand	931	30.9	21.8	17.6	28.2	30.9	1.1	0.3	29.6	32.5
Turkey	875	53.2	12.0	11.7	21.6	53.2	0.8	0.7	50.5	55.6
United Arab Emirates	2562	38.4	20.5	13.9	24.9	38.4	2.1	0.1	38.0	38.7
United States	1452	46.2	12.0	14.6	24.7	46.2	1.3	1.2	45.6	46.9
International Avg (n=39)	36150	42.6	21.6	10.8	22.0	42.6	2.5	0.6	43.0	42.2
Buenos Aires, Argentina	460	26.6	20.7	7.8	25.3	26.6	13.7	6.0	31.0	22.3
Ontario, Canada	637	44.8	13.6	12.3	27.0	44.8	0.7	1.7	47.9	41.6
Quebec, Canada	554	47.7	9.3	23.2	17.1	47.7	0.8	1.9	46.2	49.5
Norway (8)	680	38.4	14.8	12.1	31.4	38.4	3.2	0.1	35.6	41.7
Abu Dhabi, UAE	685	36.2	19.7	13.6	27.5	36.2	2.7	0.2	36.5	36.0
Dubai, UAE	880	42.7	19.2	12.2	24.0	42.7	1.7	0.1	38.8	46.9
Florida, US	295	46.9	17.0	10.3	22.7	46.9	1.7	1.5	51.8	43.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_07A (S052043A): Chemistry / Applying Type: MC Key: B
Label: 1:Neutralizing wasp venom: water

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	69.8	27.0	69.8	2.9	0.3	70.8	68.8
Bahrain	706	68.7	27.1	68.7	3.5	0.7	71.5	66.3
Botswana	859	32.5	58.9	32.5	6.5	2.0	34.4	30.4
Canada	1238	78.1	17.7	78.1	2.5	1.7	77.8	78.3
Chile	694	69.1	24.7	69.1	5.1	1.1	70.4	68.1
Chinese Taipei	823	75.1	23.3	75.1	1.5	0.0	79.3	71.3
Egypt	1120	55.3	31.9	55.3	12.0	0.7	57.2	53.3
England	681	77.7	17.2	77.7	4.6	0.5	79.6	75.9
Georgia	574	58.1	25.9	58.1	15.5	0.6	58.9	57.4
Hong Kong SAR	601	74.9	24.1	74.9	1.1	0.0	74.0	75.7
Hungary	703	86.0	9.6	86.0	4.5	0.0	86.6	85.3
Iran, Islamic Rep. of	891	69.9	16.9	69.9	12.1	1.1	72.7	67.4
Ireland	662	79.6	13.2	79.6	6.8	0.4	78.3	81.1
Israel	790	71.8	22.6	71.8	4.6	1.0	73.8	69.8
Italy	640	84.0	12.5	84.0	3.4	0.1	83.3	84.7
Japan	682	81.2	16.3	81.2	2.2	0.3	81.7	80.7
Jordan	1126	64.6	26.9	64.6	8.4	0.1	67.0	62.4
Kazakhstan	702	67.7	23.8	67.7	8.3	0.1	70.7	64.8
Korea, Rep. of	763	80.4	16.8	80.4	2.8	0.0	78.1	82.3
Kuwait	670	59.0	32.3	59.0	6.7	2.0	66.4	51.6
Lebanon	531	52.7	35.8	52.7	9.9	1.6	50.2	55.4
Lithuania	633	79.5	18.0	79.5	2.5	0.0	77.3	81.6
Malaysia	1401	61.9	34.4	61.9	1.9	1.8	59.3	64.5
Malta	550	64.2	30.7	64.2	4.9	0.2	64.4	64.1
Morocco	1870	60.5	28.6	60.5	10.0	1.0	65.0	57.0
New Zealand	1151	67.9	26.7	67.9	4.8	0.6	68.1	67.7
Norway	677	72.8	19.9	72.8	6.0	1.3	70.4	75.0
Oman	1260	62.1	31.0	62.1	6.4	0.5	65.3	59.1
Qatar	783	63.3	30.6	63.3	5.5	0.6	70.8	55.4
Russian Federation	684	79.1	14.0	79.1	6.3	0.6	78.7	79.5
Saudi Arabia	535	64.2	27.1	64.2	8.6	0.2	71.2	56.6
Singapore	873	77.2	21.3	77.2	1.5	0.0	75.5	78.7
Slovenia	615	76.6	21.1	76.6	2.2	0.2	78.1	75.4
South Africa	1794	34.5	57.2	34.5	6.5	1.7	35.6	33.4
Sweden	581	62.6	23.3	62.6	13.0	1.1	62.5	63.0
Thailand	931	77.2	18.7	77.2	3.7	0.5	79.1	74.9
Turkey	875	66.9	30.7	66.9	1.8	0.7	69.2	64.8
United Arab Emirates	2562	67.2	27.8	67.2	4.9	0.1	71.4	63.0
United States	1452	73.3	23.3	73.3	2.2	1.2	72.0	74.5
International Avg (n=39)	36151	68.4	25.4	68.4	5.6	0.7	69.6	67.2
Buenos Aires, Argentina	454	57.4	18.4	57.4	17.7	6.5	56.9	57.5
Ontario, Canada	638	74.6	20.8	74.6	2.8	1.8	73.1	76.1
Quebec, Canada	558	85.5	10.8	85.5	1.9	1.8	87.8	82.8
Norway (8)	680	67.5	27.6	67.5	4.8	0.1	69.8	64.8
Abu Dhabi, UAE	685	66.5	27.5	66.5	5.8	0.2	76.5	57.2
Dubai, UAE	880	68.9	26.9	68.9	4.1	0.1	69.3	68.6
Florida, US	295	68.1	28.2	68.1	2.3	1.5	68.8	67.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_07B (S052043B): Chemistry / Applying Type: MC Key: A
Label: 2:Neutralizing wasp venom: lemon juice

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	60.6	60.6	34.7	4.4	0.3	60.0	61.3
Bahrain	706	59.0	59.0	36.9	3.5	0.7	61.7	56.5
Botswana	859	45.7	45.7	42.2	10.0	2.0	46.7	44.7
Canada	1238	67.6	67.6	28.8	1.9	1.7	64.2	71.4
Chile	694	61.3	61.3	31.7	5.9	1.1	59.9	62.5
Chinese Taipei	823	74.9	74.9	24.3	0.7	0.0	78.2	71.9
Egypt	1120	48.2	48.2	39.8	11.2	0.7	48.2	48.2
England	681	67.5	67.5	28.8	3.2	0.5	71.2	64.0
Georgia	574	47.2	47.2	38.0	14.3	0.6	44.3	49.6
Hong Kong SAR	601	79.0	79.0	20.1	0.9	0.0	79.1	78.8
Hungary	703	63.7	63.7	32.3	3.9	0.0	63.1	64.4
Iran, Islamic Rep. of	891	62.0	62.0	26.5	10.4	1.1	62.7	61.4
Ireland	662	69.1	69.1	25.6	4.9	0.4	69.1	69.1
Israel	790	63.1	63.1	31.3	4.6	1.0	63.5	62.7
Italy	640	69.1	69.1	27.4	3.4	0.1	69.3	68.8
Japan	682	67.0	67.0	30.9	1.8	0.3	66.6	67.4
Jordan	1126	47.7	47.7	43.2	9.0	0.1	46.2	49.1
Kazakhstan	702	56.7	56.7	35.0	8.2	0.1	59.0	54.4
Korea, Rep. of	763	67.5	67.5	30.4	2.1	0.0	63.0	71.1
Kuwait	670	43.4	43.4	47.1	7.5	2.0	44.9	42.0
Lebanon	535	49.8	49.8	39.4	9.3	1.6	48.6	51.0
Lithuania	633	65.4	65.4	32.7	2.0	0.0	63.9	66.7
Malaysia	1401	57.7	57.7	38.1	2.4	1.8	57.6	57.8
Malta	550	51.6	51.6	43.4	4.8	0.2	58.3	45.3
Morocco	1870	23.9	23.9	64.0	11.1	1.0	20.6	26.6
New Zealand	1151	58.4	58.4	36.4	4.6	0.6	58.3	58.5
Norway	677	67.5	67.5	26.2	4.9	1.3	66.7	68.3
Oman	1261	53.2	53.2	40.2	6.1	0.5	53.1	53.3
Qatar	783	52.5	52.5	40.6	6.3	0.6	53.8	51.1
Russian Federation	684	64.7	64.7	30.7	4.1	0.6	62.7	66.6
Saudi Arabia	536	51.9	51.9	40.6	7.4	0.2	55.1	48.4
Singapore	873	74.7	74.7	23.9	1.4	0.0	72.6	76.6
Slovenia	615	62.0	62.0	35.3	2.6	0.2	61.0	62.8
South Africa	1794	47.4	47.4	42.6	8.3	1.7	50.8	43.6
Sweden	581	61.6	61.6	31.8	5.5	1.1	63.8	59.5
Thailand	931	82.1	82.1	14.9	2.6	0.5	83.9	80.0
Turkey	875	69.8	69.8	28.0	1.5	0.7	71.7	68.1
United Arab Emirates	2562	57.5	57.5	38.2	4.1	0.1	58.3	56.8
United States	1452	62.2	62.2	34.7	1.9	1.2	62.8	61.6
International Avg (n=39)	36157	59.9	59.9	34.3	5.2	0.7	60.1	59.5
Buenos Aires, Argentina	456	42.4	42.4	32.2	19.0	6.4	43.2	41.4
Ontario, Canada	638	63.2	63.2	32.8	2.2	1.8	58.2	68.3
Quebec, Canada	558	78.6	78.6	18.9	0.7	1.8	76.7	80.8
Norway (8)	680	56.0	56.0	39.0	4.9	0.1	56.8	55.1
Abu Dhabi, UAE	685	56.1	56.1	39.3	4.5	0.2	60.5	52.0
Dubai, UAE	880	61.9	61.9	34.0	3.9	0.1	59.6	64.4
Florida, US	295	61.5	61.5	35.3	1.7	1.5	61.0	61.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_07C (S052043C): Chemistry / Applying Type: MC Key: A
Label: 3:Neutralizing wasp venom: vinegar

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	75.6	75.6	20.7	3.4	0.3	72.7	78.9
Bahrain	706	67.0	67.0	29.2	3.0	0.7	71.1	63.5
Botswana	859	47.6	47.6	40.1	10.3	2.0	49.8	45.0
Canada	1237	69.6	69.6	26.2	2.5	1.7	65.7	74.2
Chile	694	58.0	58.0	35.8	5.1	1.1	57.2	58.7
Chinese Taipei	823	74.9	74.9	24.0	1.1	0.0	79.2	70.8
Egypt	1120	53.4	53.4	32.6	13.3	0.7	54.6	52.0
England	681	71.3	71.3	25.2	3.0	0.5	70.4	72.1
Georgia	574	56.0	56.0	30.9	12.6	0.6	56.8	55.3
Hong Kong SAR	601	76.2	76.2	22.6	1.2	0.0	76.4	76.1
Hungary	703	75.8	75.8	21.9	2.2	0.0	77.9	73.7
Iran, Islamic Rep. of	891	62.7	62.7	28.1	8.1	1.1	58.6	66.5
Ireland	662	75.7	75.7	20.4	3.5	0.4	74.5	76.9
Israel	790	73.9	73.9	21.0	4.1	1.0	76.9	71.0
Italy	640	62.0	62.0	32.8	5.0	0.1	62.8	61.2
Japan	682	73.9	73.9	23.9	1.9	0.3	71.5	76.2
Jordan	1126	59.6	59.6	33.7	6.6	0.1	57.7	61.4
Kazakhstan	702	65.4	65.4	27.1	7.4	0.1	69.1	61.8
Korea, Rep. of	763	75.9	75.9	23.0	1.0	0.0	71.6	79.5
Kuwait	670	58.2	58.2	33.9	5.9	2.0	63.6	52.6
Lebanon	537	57.8	57.8	31.3	9.3	1.6	53.8	62.1
Lithuania	633	61.1	61.1	36.3	2.6	0.0	59.4	62.7
Malaysia	1401	60.3	60.3	35.9	2.0	1.8	57.9	62.7
Malta	550	66.9	66.9	28.9	4.0	0.2	63.8	69.8
Morocco	1870	58.5	58.5	31.6	8.9	1.0	61.7	56.0
New Zealand	1151	71.1	71.1	25.5	2.8	0.6	68.6	73.7
Norway	677	65.3	65.3	28.4	5.0	1.3	68.1	62.6
Oman	1261	53.9	53.9	37.7	7.9	0.5	57.2	50.7
Qatar	783	60.1	60.1	34.0	5.3	0.6	63.3	56.7
Russian Federation	684	61.6	61.6	32.1	5.7	0.6	61.4	61.9
Saudi Arabia	534	57.1	57.1	36.2	6.5	0.2	64.2	49.4
Singapore	873	67.0	67.0	31.3	1.6	0.0	65.6	68.3
Slovenia	615	69.8	69.8	27.5	2.6	0.2	70.3	69.4
South Africa	1794	51.5	51.5	38.5	8.2	1.7	52.8	50.1
Sweden	581	53.0	53.0	39.0	6.9	1.1	56.6	50.2
Thailand	930	73.4	73.4	22.4	3.8	0.5	75.8	70.5
Turkey	875	71.8	71.8	25.6	1.9	0.7	75.2	68.7
United Arab Emirates	2562	63.9	63.9	31.9	4.1	0.1	63.8	64.0
United States	1452	67.9	67.9	28.8	2.1	1.2	68.8	67.0
International Avg (n=39)	36155	64.7	64.7	29.6	4.9	0.7	65.3	64.2
Buenos Aires, Argentina	455	42.9	42.9	33.3	17.3	6.4	45.4	40.2
Ontario, Canada	637	69.1	69.1	26.2	3.0	1.8	64.5	74.4
Quebec, Canada	558	71.9	71.9	24.9	1.3	1.8	70.9	73.1
Norway (8)	680	69.7	69.7	26.6	3.7	0.1	70.5	68.6
Abu Dhabi, UAE	685	62.8	62.8	32.2	4.8	0.2	65.7	60.2
Dubai, UAE	880	65.8	65.8	30.7	3.3	0.1	62.7	69.3
Florida, US	295	69.8	69.8	26.8	2.0	1.5	70.7	69.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_07D (S052043D): Chemistry / Applying Type: MC Key: B
Label: 4:Neutralizing wasp venom: baking soda

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	50.8	44.8	50.8	4.1	0.3	48.3	53.5
Bahrain	706	46.0	49.1	46.0	4.2	0.7	46.3	45.7
Botswana	859	49.3	37.9	49.3	10.8	2.0	52.0	46.2
Canada	1238	48.0	47.5	48.0	2.8	1.7	45.0	51.5
Chile	694	31.6	62.1	31.6	5.2	1.1	28.0	34.7
Chinese Taipei	823	68.8	29.4	68.8	1.8	0.0	73.5	64.5
Egypt	1120	40.6	46.7	40.6	11.9	0.7	41.2	40.0
England	681	54.2	41.3	54.2	4.0	0.5	53.9	54.5
Georgia	574	44.2	40.5	44.2	14.8	0.6	42.1	45.9
Hong Kong SAR	601	67.1	32.1	67.1	0.8	0.0	66.5	67.7
Hungary	703	57.2	37.8	57.2	5.0	0.0	53.5	61.0
Iran, Islamic Rep. of	891	44.4	43.5	44.4	11.0	1.1	40.3	48.1
Ireland	662	57.5	35.6	57.5	6.5	0.4	56.5	58.6
Israel	790	55.3	38.7	55.3	5.1	1.0	55.2	55.3
Italy	640	44.0	50.1	44.0	5.8	0.1	41.3	46.9
Japan	682	65.0	33.1	65.0	1.7	0.3	60.0	69.5
Jordan	1126	40.1	51.2	40.1	8.6	0.1	38.4	41.6
Kazakhstan	702	56.2	36.5	56.2	7.1	0.1	56.3	56.2
Korea, Rep. of	763	61.3	36.6	61.3	2.2	0.0	56.8	65.0
Kuwait	670	34.4	58.2	34.4	5.4	2.0	30.1	38.6
Lebanon	536	47.0	41.8	47.0	9.6	1.6	43.4	51.0
Lithuania	633	41.2	55.8	41.2	3.0	0.0	39.7	42.7
Malaysia	1401	51.9	43.5	51.9	2.8	1.8	53.2	50.6
Malta	550	56.3	38.8	56.3	4.8	0.2	55.5	57.0
Morocco	1870	29.8	60.7	29.8	8.5	1.0	26.1	32.8
New Zealand	1151	48.2	46.1	48.2	5.1	0.6	43.9	52.9
Norway	677	63.3	27.8	63.3	7.6	1.3	62.5	64.0
Oman	1260	47.9	44.2	47.9	7.4	0.5	50.2	45.7
Qatar	783	43.7	51.0	43.7	4.6	0.6	44.4	43.0
Russian Federation	683	47.1	45.8	47.1	6.5	0.6	46.1	48.0
Saudi Arabia	536	36.2	57.2	36.2	6.4	0.2	38.5	33.8
Singapore	873	60.9	37.3	60.9	1.8	0.0	60.4	61.3
Slovenia	615	44.7	52.6	44.7	2.5	0.2	38.6	49.4
South Africa	1794	45.1	44.9	45.1	8.3	1.7	47.2	42.7
Sweden	581	40.2	51.6	40.2	7.1	1.1	44.3	37.0
Thailand	930	67.4	27.8	67.4	4.3	0.5	70.7	63.6
Turkey	875	58.2	39.0	58.2	2.2	0.7	59.7	56.8
United Arab Emirates	2562	49.4	46.1	49.4	4.4	0.1	48.5	50.2
United States	1452	45.8	50.8	45.8	2.2	1.2	43.4	48.2
International Avg (n=39)	36155	49.7	44.0	49.7	5.6	0.7	48.8	50.7
Buenos Aires, Argentina	456	27.7	48.8	27.7	17.1	6.4	27.7	27.2
Ontario, Canada	638	45.4	49.6	45.4	3.2	1.8	41.2	50.2
Quebec, Canada	558	55.3	41.2	55.3	1.7	1.8	52.5	58.5
Norway (8)	680	58.7	34.0	58.7	7.2	0.1	57.7	59.8
Abu Dhabi, UAE	685	48.6	45.5	48.6	5.7	0.2	50.1	47.2
Dubai, UAE	880	56.8	39.1	56.8	4.0	0.1	54.8	59.0
Florida, US	295	48.1	48.7	48.1	1.8	1.5	53.1	44.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_07Z (S052043Z): Chemistry / Applying Type: CR 1 Point
Label: Neutralizing wasp venom (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	28.9	69.4	28.9	1.5	0.3	26.4	31.5
Bahrain	706	31.2	66.4	31.2	1.8	0.7	33.5	29.0
Botswana	859	13.3	82.8	13.3	1.9	2.0	15.4	10.8
Canada	1237	33.6	63.5	33.6	1.2	1.7	30.0	37.7
Chile	694	18.1	77.7	18.1	3.1	1.1	15.7	20.2
Chinese Taipei	823	51.7	47.9	51.7	0.4	0.0	57.0	46.7
Egypt	1120	18.3	76.8	18.3	4.2	0.7	19.7	16.7
England	681	38.1	60.0	38.1	1.4	0.5	40.5	35.8
Georgia	574	22.0	74.8	22.0	2.6	0.6	23.1	21.1
Hong Kong SAR	601	50.2	49.4	50.2	0.3	0.0	50.4	50.1
Hungary	703	38.6	60.6	38.6	0.8	0.0	37.7	39.5
Iran, Islamic Rep. of	891	31.9	65.8	31.9	1.3	1.1	28.6	34.8
Ireland	662	44.0	54.7	44.0	0.9	0.4	42.4	45.6
Israel	790	39.1	56.8	39.1	3.0	1.0	39.6	38.7
Italy	640	32.9	65.3	32.9	1.7	0.1	33.9	31.8
Japan	682	48.1	51.3	48.1	0.3	0.3	45.9	50.2
Jordan	1126	17.0	81.5	17.0	1.4	0.1	16.9	17.1
Kazakhstan	702	32.3	65.4	32.3	2.1	0.1	33.9	30.8
Korea, Rep. of	763	48.2	51.5	48.2	0.3	0.0	44.4	51.4
Kuwait	670	16.4	79.7	16.4	1.9	2.0	16.0	17.0
Lebanon	530	24.3	68.1	24.3	6.0	1.6	22.0	26.8
Lithuania	633	26.2	72.3	26.2	1.5	0.0	23.8	28.4
Malaysia	1401	33.0	64.4	33.0	0.8	1.8	32.9	33.1
Malta	550	25.3	72.6	25.3	1.9	0.2	27.1	23.6
Morocco	1870	7.3	89.6	7.3	2.2	1.0	6.1	8.2
New Zealand	1151	25.4	72.8	25.4	1.1	0.6	22.2	29.0
Norway	677	35.8	60.0	35.8	2.9	1.3	36.7	35.0
Oman	1260	26.7	71.0	26.7	1.8	0.5	28.1	25.4
Qatar	783	22.5	73.3	22.5	3.6	0.6	24.7	20.2
Russian Federation	683	33.5	63.2	33.5	2.7	0.6	30.9	36.0
Saudi Arabia	534	18.3	80.2	18.3	1.3	0.2	23.2	13.1
Singapore	873	38.1	61.5	38.1	0.4	0.0	36.7	39.4
Slovenia	615	30.0	68.6	30.0	1.3	0.2	25.0	33.9
South Africa	1794	9.8	85.1	9.8	3.4	1.7	10.4	9.1
Sweden	581	23.0	75.4	23.0	0.5	1.1	29.8	17.6
Thailand	929	48.9	49.3	48.9	1.3	0.5	52.3	45.0
Turkey	875	39.0	59.9	39.0	0.5	0.7	41.7	36.5
United Arab Emirates	2562	28.4	70.2	28.4	1.3	0.1	28.9	27.8
United States	1452	27.0	70.5	27.0	1.4	1.2	25.3	28.7
International Avg (n=39)	36145	30.2	67.4	30.2	1.7	0.7	30.2	30.1
Buenos Aires, Argentina	454	16.0	65.9	16.0	11.6	6.5	17.3	14.2
Ontario, Canada	637	29.1	67.6	29.1	1.5	1.8	24.4	34.3
Quebec, Canada	558	44.6	53.4	44.6	0.1	1.8	42.0	47.6
Norway (8)	680	28.0	70.2	28.0	1.7	0.1	29.3	26.5
Abu Dhabi, UAE	685	28.3	69.9	28.3	1.6	0.2	31.9	24.9
Dubai, UAE	880	32.5	66.6	32.5	0.8	0.1	30.8	34.3
Florida, US	295	27.4	70.7	27.4	0.5	1.5	29.3	25.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_08 (S052194): Physics / Reasoning Type: MC Key: C
Label: Particles in Samples X and Y

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	51.5	6.7	29.6	51.5	8.7	3.1	0.4	50.6	52.5
Bahrain	706	42.1	14.1	30.2	42.1	11.1	1.5	0.9	44.1	40.4
Botswana	859	28.7	17.1	29.4	28.7	19.6	2.9	2.3	31.6	25.3
Canada	1221	60.6	5.2	23.6	60.6	8.0	0.6	1.9	62.7	58.5
Chile	694	33.7	9.1	43.4	33.7	9.9	2.5	1.5	36.3	31.5
Chinese Taipei	823	59.8	6.2	21.3	59.8	12.5	0.2	0.0	58.1	61.4
Egypt	1120	34.1	15.2	36.8	34.1	9.9	3.2	0.7	30.0	38.7
England	681	52.7	5.0	26.2	52.7	12.9	2.6	0.5	57.1	48.6
Georgia	574	43.9	12.4	27.1	43.9	12.2	3.7	0.8	48.6	40.0
Hong Kong SAR	601	46.8	4.9	30.3	46.8	17.1	0.8	0.0	45.7	47.8
Hungary	703	49.3	5.4	27.1	49.3	9.1	9.2	0.0	52.6	45.9
Iran, Islamic Rep. of	891	44.7	10.7	32.4	44.7	7.9	2.6	1.6	46.8	42.9
Ireland	662	49.2	6.4	29.0	49.2	13.7	1.3	0.4	54.9	43.2
Israel	790	60.7	4.3	21.8	60.7	9.3	2.7	1.2	64.5	56.9
Italy	640	50.1	5.5	29.5	50.1	10.7	3.8	0.3	50.5	49.7
Japan	682	49.6	5.3	27.2	49.6	15.8	1.9	0.3	46.6	52.2
Jordan	1126	36.2	16.3	36.8	36.2	8.6	1.9	0.3	35.5	36.7
Kazakhstan	702	46.1	13.3	24.5	46.1	12.4	3.4	0.2	42.9	49.3
Korea, Rep. of	763	44.5	4.0	37.1	44.5	13.6	0.8	0.0	43.4	45.4
Kuwait	670	27.6	15.1	39.7	27.6	10.8	4.6	2.3	29.3	25.9
Lebanon	515	30.9	15.1	27.2	30.9	14.6	10.3	1.9	29.0	33.0
Lithuania	633	54.4	7.3	28.1	54.4	7.5	2.6	0.0	57.6	51.5
Malaysia	1401	34.2	7.6	22.0	34.2	32.4	1.5	2.3	31.7	36.7
Malta	550	46.0	10.3	28.5	46.0	11.9	3.1	0.2	48.3	43.8
Morocco	1870	27.2	12.8	45.1	27.2	9.1	4.7	1.3	29.3	25.5
New Zealand	1151	49.7	5.1	29.3	49.7	12.7	2.5	0.6	49.8	49.6
Norway	677	47.8	5.3	25.2	47.8	10.3	10.1	1.3	48.1	47.4
Oman	1262	31.5	14.0	40.0	31.5	10.9	2.9	0.7	31.6	31.4
Qatar	783	34.4	13.6	34.5	34.4	13.3	3.2	1.0	34.4	34.4
Russian Federation	683	66.3	3.7	19.9	66.3	6.7	3.0	0.6	65.7	66.8
Saudi Arabia	536	24.4	16.4	42.1	24.4	15.3	1.3	0.5	26.7	21.9
Singapore	873	61.8	5.6	19.6	61.8	12.3	0.6	0.0	60.7	62.7
Slovenia	615	49.0	6.2	32.9	49.0	5.8	5.9	0.2	52.9	46.0
South Africa	1794	24.2	17.1	42.9	24.2	11.2	2.4	2.2	24.0	24.4
Sweden	580	53.7	6.5	24.6	53.7	9.1	4.6	1.5	60.2	48.6
Thailand	931	20.1	20.2	45.0	20.1	11.5	2.6	0.6	18.8	21.5
Turkey	875	41.1	11.3	29.6	41.1	16.2	1.0	0.7	44.3	38.2
United Arab Emirates	2561	38.8	11.2	36.5	38.8	11.5	1.8	0.2	39.8	37.8
United States	1452	48.4	6.2	32.7	48.4	10.3	1.2	1.2	50.0	46.8
International Avg (n=39)	36118	43.5	9.7	31.0	43.5	12.0	3.0	0.8	44.5	42.6
Buenos Aires, Argentina	452	26.7	8.5	34.1	26.7	8.6	15.4	6.8	30.9	22.1
Ontario, Canada	635	62.9	5.7	19.6	62.9	8.7	0.8	2.2	64.1	62.0
Quebec, Canada	544	59.5	5.0	26.5	59.5	6.7	0.4	1.9	60.1	58.9
Norway (8)	680	42.5	9.9	29.4	42.5	9.2	8.8	0.2	47.3	37.0
Abu Dhabi, UAE	685	34.3	11.0	40.3	34.3	11.9	2.4	0.2	38.0	30.8
Dubai, UAE	879	49.0	6.9	30.7	49.0	12.4	1.0	0.1	45.1	53.1
Florida, US	295	46.4	9.0	27.8	46.4	12.2	2.8	1.8	48.6	44.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_09 (S052179): Physics / Applying Type: MC Key: B
Label: Temperature of three containers

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	43.1	7.0	43.1	17.2	30.6	1.6	0.5	42.4	44.0
Bahrain	705	27.7	10.5	27.7	17.8	41.3	1.6	1.2	28.5	27.0
Botswana	858	17.1	8.7	17.1	13.1	54.0	3.5	3.6	17.4	16.6
Canada	1233	39.7	5.2	39.7	19.5	32.9	0.6	2.1	35.5	44.4
Chile	694	35.3	8.1	35.3	19.0	34.1	1.4	2.1	33.5	36.8
Chinese Taipei	823	69.2	4.8	69.2	9.6	16.4	0.2	0.0	69.1	69.3
Egypt	1120	27.3	13.1	27.3	18.5	37.7	2.4	1.0	27.5	27.0
England	681	43.6	8.7	43.6	16.0	30.6	0.6	0.5	44.0	43.2
Georgia	574	31.9	8.9	31.9	20.3	33.7	4.3	0.9	30.1	33.3
Hong Kong SAR	601	57.8	4.4	57.8	15.7	21.6	0.4	0.0	57.7	58.0
Hungary	703	48.4	5.3	48.4	15.5	26.2	4.6	0.0	45.8	51.1
Iran, Islamic Rep. of	891	26.8	8.6	26.8	20.8	39.1	2.7	1.9	26.2	27.4
Ireland	662	41.6	5.0	41.6	17.2	35.1	0.7	0.4	38.8	44.6
Israel	790	37.9	6.1	37.9	18.1	32.9	3.2	1.7	37.6	38.3
Italy	640	40.7	5.4	40.7	17.9	32.6	3.3	0.3	38.1	43.4
Japan	682	68.2	3.7	68.2	10.9	16.0	1.0	0.3	68.8	67.6
Jordan	1126	20.4	15.1	20.4	21.0	40.8	2.2	0.5	19.2	21.4
Kazakhstan	702	51.5	7.1	51.5	10.8	27.6	2.7	0.3	47.6	55.4
Korea, Rep. of	763	70.8	3.1	70.8	13.7	12.2	0.2	0.0	71.5	70.3
Kuwait	670	29.8	11.3	29.8	18.8	33.7	3.6	2.8	22.4	37.2
Lebanon	533	26.0	11.5	26.0	17.4	33.0	8.7	3.5	25.2	26.8
Lithuania	633	50.7	6.8	50.7	15.1	25.9	1.5	0.0	50.6	50.7
Malaysia	1401	34.8	11.8	34.8	17.7	31.0	1.7	3.1	32.5	37.0
Malta	550	33.3	9.6	33.3	22.2	31.9	2.6	0.3	31.8	34.8
Morocco	1869	25.7	15.3	25.7	21.4	31.6	4.1	1.8	22.0	28.7
New Zealand	1151	41.3	7.4	41.3	19.0	29.4	2.1	0.8	37.7	45.3
Norway	677	53.7	3.9	53.7	13.1	22.9	4.6	1.9	53.6	53.8
Oman	1262	26.6	9.4	26.6	22.0	39.2	1.8	1.0	28.9	24.4
Qatar	783	30.1	8.7	30.1	21.3	36.0	2.8	1.2	29.7	30.5
Russian Federation	683	54.9	4.9	54.9	12.3	23.4	3.6	0.9	51.2	58.4
Saudi Arabia	536	22.3	13.5	22.3	21.3	41.9	0.5	0.6	21.7	22.9
Singapore	873	58.9	2.4	58.9	13.2	25.0	0.4	0.0	61.1	57.0
Slovenia	615	56.3	4.1	56.3	16.2	21.1	2.1	0.2	55.3	57.0
South Africa	1794	23.8	17.3	23.8	16.4	38.1	1.9	2.5	22.5	25.1
Sweden	580	49.3	5.5	49.3	12.6	25.7	4.9	2.1	48.3	50.4
Thailand	931	38.8	12.4	38.8	20.5	25.3	2.1	1.0	39.5	37.9
Turkey	875	37.1	7.3	37.1	32.1	22.3	0.6	0.7	37.4	36.8
United Arab Emirates	2562	31.5	9.1	31.5	15.7	41.8	1.7	0.2	31.0	32.0
United States	1452	44.9	7.7	44.9	20.0	25.1	1.0	1.3	43.1	46.7
International Avg (n=39)	36146	40.2	8.2	40.2	17.5	30.8	2.3	1.1	39.1	41.3
Buenos Aires, Argentina	456	30.6	9.4	30.6	13.1	28.0	11.7	7.1	28.7	32.3
Ontario, Canada	637	38.5	5.4	38.5	18.8	34.2	0.7	2.5	31.4	46.4
Quebec, Canada	554	42.9	5.2	42.9	18.3	31.3	0.4	1.9	42.1	43.8
Norway (8)	680	48.9	4.5	48.9	13.6	28.1	4.7	0.2	47.4	50.6
Abu Dhabi, UAE	685	29.1	9.5	29.1	18.0	41.6	1.5	0.2	30.0	28.3
Dubai, UAE	880	39.2	6.0	39.2	15.2	38.9	0.6	0.2	40.0	38.3
Florida, US	295	36.5	9.8	36.5	25.9	22.8	1.7	3.3	36.9	36.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_10 (S052233): Physics / Reasoning Type: CR 1 Point
Label: Object X floating in Liquids A,B,C

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	14.5	77.8	14.5	7.2	0.5	12.6	16.7
Bahrain	705	16.1	77.5	16.1	4.9	1.5	18.4	14.1
Botswana	858	7.8	83.9	7.8	3.6	4.7	9.1	6.3
Canada	1238	20.4	70.3	20.4	7.1	2.2	19.5	21.4
Chile	694	7.9	77.8	7.9	11.9	2.4	7.7	8.1
Chinese Taipei	823	26.3	72.4	26.3	1.1	0.2	24.2	28.2
Egypt	1120	12.0	82.5	12.0	4.4	1.0	14.4	9.3
England	681	16.7	73.2	16.7	9.4	0.6	15.3	18.1
Georgia	574	7.5	83.3	7.5	8.2	1.0	7.0	7.9
Hong Kong SAR	601	24.7	72.5	24.7	2.8	0.0	27.4	22.1
Hungary	703	27.0	70.3	27.0	2.7	0.0	25.5	28.5
Iran, Islamic Rep. of	891	12.0	77.7	12.0	7.9	2.4	13.1	11.1
Ireland	662	12.7	82.7	12.7	4.1	0.4	10.3	15.3
Israel	790	24.2	67.4	24.2	6.1	2.3	24.2	24.3
Italy	640	14.3	74.2	14.3	10.5	1.0	16.7	11.7
Japan	682	25.9	70.9	25.9	3.0	0.3	26.5	25.3
Jordan	1126	15.0	81.5	15.0	2.4	1.0	15.7	14.4
Kazakhstan	702	48.0	48.7	48.0	3.0	0.3	52.9	43.1
Korea, Rep. of	763	23.5	74.0	23.5	2.5	0.0	19.6	26.8
Kuwait	670	14.3	77.6	14.3	5.3	2.8	18.6	10.0
Lebanon	553	10.2	68.9	10.2	17.3	3.7	10.0	10.3
Lithuania	633	17.7	78.9	17.7	3.4	0.0	17.6	17.8
Malaysia	1401	13.6	76.2	13.6	6.6	3.6	12.8	14.4
Malta	550	16.3	78.4	16.3	5.0	0.3	17.5	15.2
Morocco	1868	6.9	82.8	6.9	8.3	2.0	8.2	5.9
New Zealand	1151	13.0	80.5	13.0	5.6	0.8	12.5	13.6
Norway	677	16.8	75.1	16.8	6.2	1.9	16.9	16.6
Oman	1261	25.9	70.7	25.9	2.3	1.1	28.7	23.3
Qatar	783	11.5	82.3	11.5	4.8	1.4	11.9	11.1
Russian Federation	683	29.5	63.6	29.5	6.0	0.9	33.4	25.8
Saudi Arabia	536	14.0	82.0	14.0	3.5	0.6	17.1	10.6
Singapore	873	27.5	71.1	27.5	1.4	0.0	26.0	28.8
Slovenia	615	27.2	69.9	27.2	2.7	0.2	27.0	27.4
South Africa	1794	8.8	84.7	8.8	3.7	2.8	8.5	9.1
Sweden	581	15.6	74.4	15.6	7.7	2.4	16.1	15.3
Thailand	931	13.9	77.2	13.9	7.7	1.3	15.5	11.9
Turkey	875	29.3	66.6	29.3	3.3	0.9	31.8	27.1
United Arab Emirates	2562	17.3	78.1	17.3	4.3	0.3	19.0	15.6
United States	1452	15.7	79.8	15.7	3.1	1.5	14.7	16.7
International Avg (n=39)	36170	18.0	75.3	18.0	5.4	1.3	18.6	17.4
Buenos Aires, Argentina	464	2.0	62.5	2.0	28.1	7.4	1.3	2.7
Ontario, Canada	637	21.3	68.9	21.3	7.2	2.6	21.0	21.7
Quebec, Canada	559	18.6	72.0	18.6	7.6	1.8	16.2	21.3
Norway (8)	680	14.1	76.1	14.1	9.6	0.2	12.3	16.2
Abu Dhabi, UAE	685	18.7	77.1	18.7	3.9	0.3	22.8	14.9
Dubai, UAE	880	21.7	73.5	21.7	4.7	0.2	20.3	23.1
Florida, US	295	14.3	78.0	14.3	3.8	3.9	11.0	17.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S03_11 (S052159): Physics / Knowing Type: MC Key: D
Label: Moving log with bar and stone

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	66.0	16.4	7.2	7.6	66.0	2.1	0.8	61.6	70.8
Bahrain	705	49.0	28.9	8.9	10.3	49.0	1.0	1.8	43.8	53.6
Botswana	859	52.7	21.3	11.4	6.6	52.7	2.4	5.5	49.4	56.4
Canada	1235	64.8	22.0	2.9	6.5	64.8	0.9	2.8	57.1	73.3
Chile	693	61.3	25.1	3.2	6.7	61.3	0.7	3.0	56.1	65.6
Chinese Taipei	823	74.2	15.1	3.5	7.0	74.2	0.0	0.2	68.0	79.9
Egypt	1120	48.8	20.4	16.3	11.3	48.8	2.1	1.1	44.5	53.5
England	681	64.8	15.5	10.3	7.8	64.8	0.6	1.0	63.6	66.0
Georgia	574	67.4	12.3	10.4	7.0	67.4	1.5	1.4	68.0	67.0
Hong Kong SAR	601	61.6	23.7	4.9	9.6	61.6	0.1	0.0	58.0	64.9
Hungary	703	76.8	14.4	3.5	5.0	76.8	0.4	0.0	67.6	86.2
Iran, Islamic Rep. of	891	58.5	22.4	9.5	5.1	58.5	2.0	2.6	55.2	61.4
Ireland	662	65.3	16.8	8.3	8.8	65.3	0.4	0.4	57.8	73.4
Israel	790	58.8	17.2	11.7	7.4	58.8	2.3	2.6	53.9	63.7
Italy	640	65.6	19.7	5.9	6.4	65.6	1.4	1.0	61.9	69.5
Japan	682	75.3	16.3	3.3	4.5	75.3	0.1	0.5	71.8	78.5
Jordan	1126	56.3	21.5	9.7	10.0	56.3	1.4	1.1	48.3	63.6
Kazakhstan	702	87.6	6.4	2.2	2.2	87.6	1.2	0.4	85.6	89.5
Korea, Rep. of	763	75.5	12.1	6.1	6.1	75.5	0.2	0.0	70.3	79.7
Kuwait	670	39.1	33.7	10.1	11.2	39.1	3.0	2.8	38.9	39.5
Lebanon	537	48.2	19.2	11.5	10.7	48.2	6.4	3.9	41.9	55.1
Lithuania	633	77.1	11.3	3.2	7.3	77.1	1.1	0.0	67.1	86.4
Malaysia	1401	66.7	16.5	5.1	6.8	66.7	0.6	4.3	58.8	74.5
Malta	550	62.8	16.9	7.6	9.6	62.8	2.6	0.5	59.8	65.6
Morocco	1869	53.1	22.0	11.9	7.4	53.1	3.3	2.3	45.9	58.8
New Zealand	1151	59.6	21.4	8.3	7.6	59.6	2.0	1.0	55.6	64.0
Norway	677	75.5	12.3	2.5	5.2	75.5	2.2	2.2	70.2	80.5
Oman	1261	50.3	29.4	6.8	11.2	50.3	1.1	1.2	39.3	60.7
Qatar	783	47.6	25.2	9.4	14.3	47.6	1.9	1.6	44.1	51.3
Russian Federation	683	76.5	14.9	1.9	5.1	76.5	0.7	1.0	68.4	84.2
Saudi Arabia	535	47.1	29.9	9.4	12.2	47.1	0.7	0.8	39.3	55.5
Singapore	873	70.5	15.9	6.7	6.5	70.5	0.5	0.0	66.2	74.3
Slovenia	615	70.8	16.3	6.2	5.8	70.8	0.7	0.2	61.6	78.0
South Africa	1794	52.9	17.6	15.1	8.2	52.9	2.6	3.6	46.8	59.8
Sweden	581	77.7	11.2	4.5	2.2	77.7	0.8	3.5	72.5	82.4
Thailand	931	65.3	19.7	6.8	6.4	65.3	0.4	1.4	63.9	66.9
Turkey	875	63.9	17.0	12.7	5.1	63.9	0.5	0.9	57.1	70.1
United Arab Emirates	2562	52.9	27.0	9.0	8.8	52.9	1.8	0.4	51.0	54.9
United States	1452	60.4	20.9	6.9	8.1	60.4	1.9	1.8	57.6	63.2
International Avg (n=39)	36151	62.8	19.1	7.6	7.6	62.8	1.4	1.5	57.7	67.8
Buenos Aires, Argentina	461	49.4	21.0	7.0	7.9	49.4	7.2	7.6	53.3	45.7
Ontario, Canada	635	61.8	22.3	4.0	7.8	61.8	1.1	3.0	53.6	70.5
Quebec, Canada	558	68.8	20.4	1.7	5.0	68.8	0.8	3.2	63.7	74.9
Norway (8)	680	67.6	15.4	6.2	8.0	67.6	2.2	0.6	64.5	71.3
Abu Dhabi, UAE	685	50.2	27.3	9.7	11.4	50.2	1.2	0.3	48.4	51.8
Dubai, UAE	880	55.1	27.6	8.0	7.9	55.1	1.2	0.2	47.7	63.1
Florida, US	295	58.1	19.8	10.3	6.0	58.1	1.1	4.7	50.0	64.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_12A (S052289A): Earth Science / Applying Type: MC Key: C
Label: Artesian water: Moving up pipe

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	87.6	2.0	3.4	87.6	4.4	1.3	1.2	85.0	90.4
Bahrain	705	74.8	5.3	4.6	74.8	11.6	1.7	2.0	77.4	72.5
Botswana	859	56.1	6.7	5.5	56.1	22.2	3.0	6.5	57.8	54.3
Canada	1237	88.6	1.1	2.9	88.6	3.7	0.6	3.2	87.8	89.3
Chile	693	80.9	3.2	4.5	80.9	7.2	1.2	3.0	79.2	82.4
Chinese Taipei	823	91.1	1.7	1.6	91.1	5.2	0.3	0.2	88.8	93.2
Egypt	1120	59.6	10.6	8.0	59.6	19.0	1.5	1.3	56.2	63.4
England	681	91.2	1.1	1.6	91.2	4.5	0.6	1.0	93.3	89.2
Georgia	574	84.9	2.7	4.1	84.9	6.1	0.8	1.4	86.1	84.0
Hong Kong SAR	601	78.4	2.1	3.3	78.4	16.2	0.0	0.0	74.3	82.1
Hungary	703	95.1	0.4	1.6	95.1	2.1	0.6	0.1	95.6	94.7
Iran, Islamic Rep. of	891	76.5	4.1	4.9	76.5	10.0	1.6	2.9	73.2	79.5
Ireland	662	90.1	1.2	2.3	90.1	5.2	0.8	0.4	90.5	89.7
Israel	790	80.0	2.3	2.5	80.0	9.8	2.7	2.8	81.0	79.0
Italy	640	88.3	0.2	3.4	88.3	4.9	2.0	1.1	85.2	91.6
Japan	682	84.7	1.4	1.2	84.7	12.0	0.0	0.6	83.8	85.6
Jordan	1126	77.9	4.9	3.1	77.9	12.0	0.9	1.2	77.7	78.1
Kazakhstan	702	91.9	2.7	0.8	91.9	3.6	0.1	0.9	91.4	92.4
Korea, Rep. of	763	84.4	1.4	5.7	84.4	8.4	0.0	0.0	82.2	86.2
Kuwait	670	68.6	8.9	6.5	68.6	11.6	1.4	3.0	72.0	65.4
Lebanon	540	53.6	13.0	10.4	53.6	15.5	3.6	3.9	48.8	58.8
Lithuania	633	90.8	1.1	3.2	90.8	4.6	0.2	0.1	90.1	91.5
Malaysia	1401	68.9	3.3	2.5	68.9	20.2	0.5	4.6	67.9	69.9
Malta	550	82.9	4.4	4.6	82.9	6.3	0.7	1.1	84.0	81.8
Morocco	1869	62.9	8.7	9.0	62.9	14.3	2.7	2.5	62.8	63.0
New Zealand	1151	82.3	2.0	3.9	82.3	9.0	1.6	1.2	81.3	83.5
Norway	677	83.1	2.9	2.4	83.1	6.3	3.1	2.2	84.0	82.3
Oman	1262	78.7	4.9	4.6	78.7	9.5	0.8	1.4	82.7	75.0
Qatar	783	73.2	7.3	5.5	73.2	11.1	1.2	1.6	76.0	70.3
Russian Federation	683	91.4	0.7	0.8	91.4	4.4	1.4	1.3	89.7	93.1
Saudi Arabia	535	64.7	8.7	5.5	64.7	19.3	0.8	0.9	67.3	61.9
Singapore	873	90.6	1.2	2.2	90.6	5.6	0.5	0.0	88.9	92.0
Slovenia	615	90.4	0.7	2.0	90.4	5.8	0.8	0.3	89.9	90.9
South Africa	1794	47.8	10.2	10.1	47.8	27.0	1.0	4.0	43.8	52.2
Sweden	581	85.0	1.3	2.9	85.0	5.6	1.6	3.6	83.4	86.5
Thailand	931	85.9	3.1	2.1	85.9	6.6	0.6	1.7	87.9	83.7
Turkey	875	81.6	2.9	7.3	81.6	7.2	0.2	0.9	80.2	83.0
United Arab Emirates	2562	79.9	5.2	4.5	79.9	8.9	1.1	0.4	82.5	77.4
United States	1452	89.8	1.2	2.2	89.8	3.1	1.1	2.6	89.6	90.0
International Avg (n=39)	36157	79.9	3.8	4.0	79.9	9.5	1.1	1.7	79.5	80.3
Buenos Aires, Argentina	460	72.3	3.3	6.0	72.3	4.1	6.5	7.8	78.3	66.6
Ontario, Canada	637	88.3	0.8	2.9	88.3	3.6	0.9	3.6	87.0	89.6
Quebec, Canada	558	87.8	1.3	3.6	87.8	3.8	0.3	3.3	88.7	86.8
Norway (8)	680	82.3	1.6	2.5	82.3	9.4	3.6	0.6	82.3	82.3
Abu Dhabi, UAE	685	75.4	5.9	5.5	75.4	11.2	1.7	0.4	77.5	73.3
Dubai, UAE	880	87.4	3.0	3.3	87.4	5.2	0.8	0.3	90.2	84.4
Florida, US	295	83.1	3.3	3.6	83.1	4.2	0.9	4.9	83.8	82.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_12B (S052289B): Earth Science / Applying Type: MC Key: A
Label: Artesian water: Difference in flow

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	56.1	56.1	5.8	21.3	14.0	1.1	1.6	54.0	58.3
Bahrain	706	38.8	38.8	13.4	25.8	17.4	1.7	2.8	41.0	36.8
Botswana	859	28.4	28.4	7.9	16.7	19.0	19.9	8.0	24.8	32.5
Canada	1234	54.7	54.7	4.1	21.5	14.3	1.6	3.8	49.7	60.6
Chile	693	5.2	5.2	56.7	21.4	10.5	2.6	3.7	6.0	4.4
Chinese Taipei	823	59.0	59.0	2.4	21.8	16.3	0.3	0.3	52.4	65.2
Egypt	1120	26.4	26.4	19.0	27.5	22.1	3.1	1.9	25.3	27.5
England	681	53.7	53.7	4.7	24.1	15.4	0.9	1.2	51.4	55.8
Georgia	574	24.5	24.5	14.5	33.0	23.5	2.7	1.7	25.1	24.1
Hong Kong SAR	601	53.5	53.5	3.3	27.3	15.7	0.2	0.0	48.5	58.1
Hungary	703	55.3	55.3	3.6	27.9	11.5	1.7	0.1	51.3	59.3
Iran, Islamic Rep. of	891	36.7	36.7	11.6	23.4	22.4	1.9	4.1	33.9	39.3
Ireland	662	48.2	48.2	2.2	30.7	17.0	1.2	0.6	49.4	47.0
Israel	790	47.2	47.2	6.8	23.3	16.5	2.0	4.2	44.7	49.7
Italy	640	47.5	47.5	5.4	29.5	12.1	3.2	2.3	41.8	53.5
Japan	682	49.4	49.4	4.6	24.2	20.3	0.8	0.6	51.2	47.8
Jordan	1126	35.4	35.4	16.0	26.0	19.4	1.6	1.7	33.8	37.0
Kazakhstan	702	61.5	61.5	8.3	18.8	9.1	1.3	0.9	59.5	63.5
Korea, Rep. of	763	57.4	57.4	1.8	25.6	14.9	0.3	0.0	52.8	61.2
Kuwait	670	34.6	34.6	14.9	25.1	16.7	5.3	3.4	37.4	31.8
Lebanon	523	31.5	31.5	16.0	23.6	16.2	7.5	5.3	29.6	33.5
Lithuania	633	54.4	54.4	3.8	25.1	15.1	1.4	0.2	50.6	57.9
Malaysia	1401	43.5	43.5	7.6	25.4	15.7	3.0	4.9	40.7	46.3
Malta	550	53.5	53.5	7.2	21.2	14.8	2.2	1.1	52.9	54.1
Morocco	1869	27.9	27.9	16.3	28.7	20.3	3.2	3.5	27.9	27.9
New Zealand	1151	56.9	56.9	6.3	21.7	11.7	1.8	1.5	54.2	60.0
Norway	677	42.5	42.5	7.1	25.6	19.5	2.3	2.9	41.3	43.7
Oman	1262	37.4	37.4	16.3	27.9	15.4	1.4	1.6	40.7	34.4
Qatar	783	42.7	42.7	12.4	23.2	17.7	1.8	2.2	42.4	43.0
Russian Federation	683	46.7	46.7	3.7	29.4	14.3	3.3	2.5	45.8	47.6
Saudi Arabia	536	31.6	31.6	20.6	26.5	19.1	0.5	1.8	35.1	27.8
Singapore	873	55.0	55.0	3.3	23.9	16.4	1.2	0.1	50.5	58.9
Slovenia	615	57.9	57.9	6.0	25.2	7.0	3.6	0.3	53.9	61.0
South Africa	1794	33.1	33.1	15.1	22.0	24.2	1.4	4.3	29.5	37.1
Sweden	581	43.2	43.2	2.5	35.1	11.0	3.7	4.4	38.9	46.6
Thailand	931	44.2	44.2	8.6	29.8	13.8	1.8	1.7	42.1	46.6
Turkey	875	42.0	42.0	6.5	26.4	22.6	1.5	1.0	41.7	42.4
United Arab Emirates	2562	43.1	43.1	10.5	28.0	16.4	1.4	0.6	42.8	43.4
United States	1452	61.8	61.8	4.8	17.8	11.4	1.2	3.0	59.7	64.0
International Avg (n=39)	36139	44.2	44.2	9.8	25.2	16.2	2.5	2.2	42.4	45.9
Buenos Aires, Argentina	455	44.5	44.5	7.2	18.6	9.7	10.8	9.2	46.6	42.7
Ontario, Canada	636	50.0	50.0	4.9	22.7	15.6	2.5	4.5	45.7	54.8
Quebec, Canada	556	60.7	60.7	3.0	20.5	12.0	0.3	3.6	56.5	65.6
Norway (8)	680	41.0	41.0	6.0	33.3	15.7	1.6	2.3	39.0	43.5
Abu Dhabi, UAE	685	43.6	43.6	11.4	28.0	15.0	1.6	0.4	45.6	41.7
Dubai, UAE	880	46.3	46.3	6.4	28.2	17.6	1.3	0.3	41.5	51.4
Florida, US	295	54.7	54.7	6.8	18.1	15.0	0.5	4.9	45.8	61.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S03_12C (S052289C): Earth Science / Applying Type: CR 1 Point
Label: Artesian water: Temperature

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	39.6	46.4	39.6	12.4	1.6	37.8	41.6
Bahrain	706	31.1	43.8	31.1	21.5	3.6	34.1	28.5
Botswana	859	9.6	46.7	9.6	16.1	27.6	10.9	8.2
Canada	1238	40.9	45.8	40.9	8.5	4.8	38.6	43.6
Chile	693	21.6	42.8	21.6	31.0	4.6	20.2	22.8
Chinese Taipei	823	47.2	38.5	47.2	14.0	0.3	44.2	49.9
Egypt	1120	5.0	71.2	5.0	21.2	2.7	6.0	3.9
England	681	42.6	43.3	42.6	12.6	1.5	43.9	41.4
Georgia	574	13.7	30.9	13.7	51.5	3.9	12.1	15.1
Hong Kong SAR	601	47.3	41.2	47.3	11.5	0.0	46.6	47.9
Hungary	703	38.9	35.9	38.9	24.2	1.0	36.5	41.3
Iran, Islamic Rep. of	891	43.3	28.6	43.3	23.6	4.6	45.7	41.1
Ireland	662	37.8	48.8	37.8	12.6	0.8	41.1	34.3
Israel	790	30.2	41.6	30.2	23.3	5.0	28.1	32.2
Italy	640	22.6	44.1	22.6	29.9	3.4	20.8	24.4
Japan	682	57.2	33.4	57.2	8.5	0.9	56.8	57.6
Jordan	1126	20.2	61.9	20.2	15.9	2.0	22.1	18.5
Kazakhstan	702	51.2	19.9	51.2	27.2	1.8	55.9	46.5
Korea, Rep. of	763	40.7	49.6	40.7	9.7	0.0	43.3	38.6
Kuwait	670	23.0	56.6	23.0	15.1	5.2	26.7	19.4
Lebanon	553	8.4	27.1	8.4	55.0	9.5	9.7	7.0
Lithuania	633	28.5	48.5	28.5	22.4	0.6	28.4	28.6
Malaysia	1401	19.7	59.0	19.7	14.5	6.7	17.7	21.7
Malta	550	25.6	51.7	25.6	21.3	1.5	25.6	25.5
Morocco	1869	12.1	45.5	12.1	37.8	4.6	13.8	10.8
New Zealand	1151	42.3	43.8	42.3	12.1	1.9	41.6	43.1
Norway	677	34.4	43.4	34.4	18.6	3.6	32.6	36.0
Oman	1259	36.2	42.7	36.2	19.1	2.1	45.3	27.6
Qatar	783	28.5	46.9	28.5	21.6	3.1	30.4	26.5
Russian Federation	683	27.5	37.3	27.5	31.9	3.4	29.2	25.9
Saudi Arabia	536	25.2	40.0	25.2	33.1	1.8	31.4	18.5
Singapore	873	50.0	45.2	50.0	4.7	0.1	47.4	52.3
Slovenia	615	34.8	49.7	34.8	14.8	0.7	36.8	33.3
South Africa	1794	17.4	60.1	17.4	17.5	5.0	18.0	16.7
Sweden	581	45.0	29.0	45.0	21.4	4.7	46.6	43.8
Thailand	931	26.2	49.0	26.2	22.8	2.1	25.7	26.8
Turkey	875	34.4	40.2	34.4	24.0	1.4	35.8	33.0
United Arab Emirates	2560	33.3	45.7	33.3	19.9	1.1	36.3	30.3
United States	1452	41.2	48.3	41.2	7.0	3.5	39.4	42.9
International Avg (n=39)	36168	31.7	44.2	31.7	20.8	3.4	32.4	31.0
Buenos Aires, Argentina	464	15.7	26.6	15.7	44.9	12.8	17.3	14.5
Ontario, Canada	637	37.6	46.4	37.6	10.0	6.0	34.9	40.6
Quebec, Canada	559	46.8	42.8	46.8	6.7	3.7	46.8	46.7
Norway (8)	680	31.8	40.2	31.8	25.1	2.9	30.4	33.5
Abu Dhabi, UAE	684	29.6	48.6	29.6	21.0	0.8	34.3	25.3
Dubai, UAE	880	41.9	44.5	41.9	12.5	1.0	42.8	41.0
Florida, US	295	37.0	48.2	37.0	9.9	4.9	31.8	41.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_01 (S062099): Biology / Knowing Type: MC Key: B
Label: Cell development in young animals

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	57.5	16.8	57.5	17.2	5.9	2.5	0.0	58.6	56.1
Bahrain	705	49.7	25.1	49.7	18.3	5.2	1.5	0.3	48.9	50.4
Botswana	852	27.0	35.3	27.0	21.2	13.9	2.7	0.0	23.6	30.7
Canada	1249	60.0	13.8	60.0	19.4	6.2	0.4	0.1	58.2	62.2
Chile	683	57.2	20.5	57.2	13.8	4.8	2.7	0.9	57.3	57.2
Chinese Taipei	810	72.4	4.2	72.4	20.2	2.9	0.3	0.0	68.3	76.2
Egypt	1097	26.0	29.9	26.0	24.4	16.0	3.5	0.2	24.9	27.3
England	684	53.4	14.8	53.4	24.1	5.6	1.8	0.3	53.0	53.9
Georgia	574	35.3	28.5	35.3	23.7	9.0	3.4	0.1	37.3	33.6
Hong Kong SAR	588	67.7	13.0	67.7	16.0	1.5	1.8	0.0	69.1	66.4
Hungary	706	53.2	14.6	53.2	24.6	6.7	0.8	0.0	45.4	61.1
Iran, Islamic Rep. of	883	58.9	16.0	58.9	12.5	10.1	2.4	0.0	61.7	56.4
Ireland	676	57.1	15.1	57.1	22.9	4.2	0.7	0.0	51.8	63.0
Israel	783	52.5	21.6	52.5	18.9	4.0	2.9	0.3	54.0	51.0
Italy	623	57.0	11.5	57.0	25.7	3.8	2.0	0.0	53.0	61.7
Japan	684	58.1	15.4	58.1	21.0	4.9	0.5	0.0	59.1	57.1
Jordan	1122	38.7	34.1	38.7	15.5	8.2	3.5	0.0	40.0	37.4
Kazakhstan	698	47.6	28.5	47.6	11.2	11.1	1.5	0.0	49.0	46.2
Korea, Rep. of	762	55.2	7.9	55.2	28.7	7.1	1.1	0.0	49.6	60.4
Kuwait	599	47.5	25.8	47.5	16.2	4.8	5.2	0.5	49.4	45.5
Lebanon	539	39.3	23.2	39.3	20.1	10.1	6.5	0.7	38.0	40.7
Lithuania	630	47.0	19.4	47.0	24.7	7.1	1.8	0.0	46.8	47.3
Malaysia	1398	45.8	16.5	45.8	22.9	13.3	1.6	0.0	41.6	49.4
Malta	548	45.4	19.8	45.4	26.4	7.3	1.1	0.0	46.7	44.1
Morocco	1859	28.7	39.2	28.7	20.5	7.6	4.0	0.1	28.6	28.7
New Zealand	1142	45.9	18.7	45.9	24.5	8.6	1.9	0.3	44.8	47.2
Norway	669	58.7	9.8	58.7	23.3	5.7	2.3	0.2	60.8	56.4
Oman	1246	55.8	21.1	55.8	14.8	5.9	2.4	0.1	61.1	50.6
Qatar	778	49.1	22.3	49.1	15.8	9.0	3.3	0.5	50.4	47.8
Russian Federation	683	65.4	17.9	65.4	11.7	3.5	1.4	0.0	66.1	64.8
Saudi Arabia	522	40.1	30.1	40.1	19.7	8.7	1.4	0.0	40.9	39.1
Singapore	867	86.3	5.9	86.3	6.8	1.0	0.0	0.0	88.7	84.2
Slovenia	605	66.9	13.0	66.9	14.8	2.7	2.4	0.2	65.6	68.0
South Africa	1779	20.7	28.4	20.7	24.7	23.3	2.8	0.1	19.4	22.0
Sweden	587	65.4	6.4	65.4	19.4	7.2	1.6	0.1	62.0	68.6
Thailand	939	42.3	20.8	42.3	26.1	9.8	1.0	0.0	42.8	41.7
Turkey	880	65.2	13.6	65.2	11.7	7.9	1.6	0.0	69.8	61.1
United Arab Emirates	2557	59.3	19.8	59.3	13.5	5.6	1.9	0.0	63.8	54.9
United States	1463	63.1	15.9	63.1	15.6	4.6	0.7	0.1	60.8	65.2
International Avg (n=39)	35914	51.9	19.3	51.9	19.3	7.3	2.1	0.1	51.6	52.2
Buenos Aires, Argentina	472	32.9	21.8	32.9	24.7	8.7	10.0	1.9	32.0	34.1
Ontario, Canada	642	61.7	14.0	61.7	18.2	5.7	0.4	0.0	57.2	66.5
Quebec, Canada	567	58.1	12.2	58.1	21.7	7.1	0.5	0.2	60.9	54.8
Norway (8)	683	51.4	13.3	51.4	23.9	9.1	2.3	0.0	48.4	54.8
Abu Dhabi, UAE	677	54.7	22.8	54.7	12.9	6.8	2.9	0.0	61.2	48.8
Dubai, UAE	883	69.1	14.0	69.1	13.7	2.3	0.8	0.0	69.9	68.2
Florida, US	297	62.4	15.8	62.4	13.4	6.8	1.6	0.0	57.6	67.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_02 (S062095): Biology / Knowing Type: CR 2 Points
Label: Fill in organ names

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	17.0	24.5	53.4	41.4	17.0	5.2	0.0	16.1	17.9
Bahrain	705	14.8	23.7	55.9	38.5	14.8	5.3	0.3	18.7	11.4
Botswana	852	22.7	26.4	49.0	49.1	22.7	1.9	0.0	20.1	25.6
Canada	1252	7.4	21.1	67.6	28.5	7.4	3.9	0.1	6.9	8.0
Chile	683	16.6	25.2	45.5	41.8	16.6	11.8	0.9	17.0	16.3
Chinese Taipei	810	39.1	26.9	31.5	65.9	39.1	2.6	0.0	37.0	40.9
Egypt	1097	7.1	14.0	69.9	21.1	7.1	8.8	0.2	7.1	7.1
England	684	9.9	17.2	69.5	27.0	9.9	3.2	0.3	11.0	8.8
Georgia	574	7.9	50.5	37.0	58.4	7.9	4.5	0.1	8.7	7.2
Hong Kong SAR	588	20.5	29.8	46.2	50.3	20.5	3.5	0.0	17.4	23.2
Hungary	706	30.9	34.8	34.0	65.6	30.9	0.4	0.0	28.7	33.1
Iran, Islamic Rep. of	883	8.6	18.6	67.1	27.1	8.6	5.8	0.0	6.2	10.8
Ireland	676	17.1	27.5	53.2	44.6	17.1	2.2	0.0	15.5	18.9
Israel	783	6.5	16.2	69.7	22.7	6.5	7.2	0.4	7.7	5.5
Italy	623	7.6	22.8	67.1	30.4	7.6	2.5	0.0	8.6	6.5
Japan	684	54.8	31.8	13.1	86.6	54.8	0.3	0.0	54.8	54.7
Jordan	1122	4.5	11.4	76.7	15.8	4.5	7.3	0.1	5.0	4.0
Kazakhstan	698	26.9	33.9	37.2	60.9	26.9	1.9	0.0	30.3	23.7
Korea, Rep. of	762	56.9	27.0	14.4	83.8	56.9	1.8	0.0	53.9	59.7
Kuwait	599	15.3	23.8	51.9	39.1	15.3	8.5	0.5	18.1	12.3
Lebanon	554	28.1	31.6	30.8	59.7	28.1	7.9	1.6	27.7	28.5
Lithuania	630	14.0	44.5	39.7	58.5	14.0	1.8	0.0	14.4	13.6
Malaysia	1398	21.0	22.7	50.9	43.7	21.0	5.4	0.0	23.9	18.4
Malta	548	13.8	22.7	57.0	36.5	13.8	6.5	0.0	14.8	12.8
Morocco	1859	7.2	23.1	61.9	30.3	7.2	7.6	0.1	9.4	5.5
New Zealand	1142	22.3	17.6	54.7	39.9	22.3	5.1	0.3	22.0	22.6
Norway	669	11.2	30.8	54.2	42.0	11.2	3.7	0.2	13.7	8.5
Oman	1246	22.0	23.5	50.2	45.5	22.0	4.2	0.1	27.6	16.6
Qatar	778	14.4	22.7	57.7	37.1	14.4	4.8	0.5	18.0	10.5
Russian Federation	683	48.4	34.0	15.0	82.4	48.4	2.6	0.0	48.5	48.3
Saudi Arabia	522	8.4	25.5	60.9	33.9	8.4	5.3	0.0	12.1	4.3
Singapore	867	77.4	16.9	5.6	94.3	77.4	0.1	0.0	78.7	76.3
Slovenia	605	36.9	31.2	30.3	68.0	36.9	1.5	0.2	38.8	35.2
South Africa	1779	13.2	21.0	61.9	34.2	13.2	3.8	0.1	14.5	11.8
Sweden	587	19.5	29.6	47.1	49.1	19.5	3.7	0.1	21.5	17.7
Thailand	939	40.3	28.3	29.5	68.6	40.3	1.9	0.0	41.2	39.3
Turkey	880	35.3	32.8	29.9	68.1	35.3	2.0	0.0	37.4	33.5
United Arab Emirates	2557	19.3	16.8	60.3	36.1	19.3	3.6	0.0	22.9	15.7
United States	1463	11.3	22.5	62.5	33.8	11.3	3.6	0.1	10.2	12.4
International Avg (n=39)	35932	22.0	25.8	47.9	47.7	22.0	4.2	0.2	22.7	21.2
Buenos Aires, Argentina	461	0.0	9.6	63.0	9.6	0.0	24.4	3.0	0.0	0.0
Ontario, Canada	643	11.0	25.1	60.2	36.1	11.0	3.8	0.0	10.6	11.4
Quebec, Canada	569	1.4	8.6	84.7	10.0	1.4	5.1	0.2	1.3	1.5
Norway (8)	684	7.0	25.4	60.8	32.4	7.0	6.7	0.0	8.0	6.0
Abu Dhabi, UAE	677	12.6	13.2	70.3	25.8	12.6	4.0	0.0	16.2	9.3
Dubai, UAE	883	32.6	23.3	42.8	55.9	32.6	1.3	0.0	34.8	30.3
Florida, US	297	17.1	17.7	60.1	34.7	17.1	5.2	0.0	11.3	22.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_03 (S062106): Biology / Knowing Type: MC Key: D
Label: Characteristics of young rabbits

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	78.7	9.4	6.1	4.2	78.7	1.6	0.0	82.3	74.6
Bahrain	699	65.7	16.2	8.7	7.4	65.7	1.6	0.4	75.7	56.9
Botswana	851	47.7	22.9	17.4	9.9	47.7	2.1	0.0	48.7	46.5
Canada	1250	83.0	9.7	3.7	2.9	83.0	0.6	0.1	86.6	79.1
Chile	683	77.3	9.3	5.9	5.8	77.3	0.6	1.1	81.1	73.8
Chinese Taipei	810	75.9	14.3	2.1	7.2	75.9	0.4	0.0	78.8	73.3
Egypt	1097	52.3	23.6	11.3	10.2	52.3	2.3	0.2	56.5	47.5
England	684	80.6	8.2	5.2	4.8	80.6	1.0	0.3	85.1	76.5
Georgia	574	73.8	11.9	7.4	4.6	73.8	2.3	0.1	75.5	72.2
Hong Kong SAR	588	85.1	9.8	1.8	3.3	85.1	0.1	0.0	88.2	82.3
Hungary	706	82.7	10.2	3.4	3.0	82.7	0.8	0.0	86.4	78.9
Iran, Islamic Rep. of	883	75.3	14.2	5.1	3.9	75.3	1.5	0.0	78.9	72.1
Ireland	676	86.7	6.0	3.7	2.6	86.7	1.0	0.0	88.5	84.6
Israel	783	74.1	10.7	5.9	6.7	74.1	2.1	0.6	80.1	68.8
Italy	623	80.2	11.2	2.1	6.2	80.2	0.3	0.0	82.1	78.0
Japan	684	79.2	9.2	7.9	3.4	79.2	0.3	0.0	85.9	72.5
Jordan	1122	60.0	24.4	6.9	6.5	60.0	1.7	0.5	65.1	55.0
Kazakhstan	698	79.1	11.5	3.2	5.3	79.1	0.8	0.0	81.2	77.0
Korea, Rep. of	762	84.6	9.3	2.9	3.2	84.6	0.0	0.0	86.9	82.4
Kuwait	600	55.7	24.0	9.9	6.8	55.7	3.1	0.5	65.4	45.8
Lebanon	532	45.6	16.6	11.7	15.6	45.6	9.5	0.9	52.4	38.1
Lithuania	630	89.2	5.7	1.3	3.0	89.2	0.8	0.0	93.1	85.6
Malaysia	1398	62.0	26.1	5.1	6.6	62.0	0.2	0.0	64.7	59.6
Malta	548	73.9	10.8	7.8	6.3	73.9	1.3	0.0	79.7	68.2
Morocco	1858	63.8	17.6	8.8	7.2	63.8	2.4	0.1	71.0	58.1
New Zealand	1142	77.7	10.4	6.1	4.0	77.7	1.3	0.3	82.8	72.3
Norway	669	75.1	12.3	6.6	4.3	75.1	1.5	0.2	80.1	69.9
Oman	1246	65.3	18.9	7.4	6.1	65.3	2.1	0.1	75.3	55.6
Qatar	778	60.0	19.5	9.8	8.4	60.0	1.8	0.5	65.4	54.3
Russian Federation	683	84.8	8.1	0.8	4.4	84.8	1.7	0.3	85.9	83.6
Saudi Arabia	519	58.7	25.9	6.4	8.3	58.7	0.7	0.0	65.2	51.5
Singapore	867	89.4	5.8	3.1	1.5	89.4	0.2	0.0	92.3	87.0
Slovenia	605	90.4	4.2	1.9	2.4	90.4	1.0	0.2	92.6	88.4
South Africa	1779	51.8	21.3	17.6	7.6	51.8	1.6	0.1	56.7	46.4
Sweden	587	77.9	9.7	5.7	5.7	77.9	0.9	0.1	81.5	74.9
Thailand	939	73.7	11.0	7.6	7.0	73.7	0.7	0.0	81.1	65.1
Turkey	880	78.3	12.8	4.0	4.6	78.3	0.3	0.0	82.2	74.8
United Arab Emirates	2557	67.5	18.2	7.1	6.0	67.5	1.3	0.0	74.0	61.0
United States	1463	71.0	15.9	5.6	6.5	71.0	1.0	0.1	76.5	65.8
International Avg (n=39)	35898	72.7	13.8	6.3	5.7	72.7	1.4	0.2	77.2	68.2
Buenos Aires, Argentina	467	64.0	8.4	6.7	6.0	64.0	12.0	2.9	67.0	60.6
Ontario, Canada	643	83.3	8.9	3.8	3.2	83.3	0.8	0.0	88.3	78.2
Quebec, Canada	567	83.1	11.5	2.7	2.1	83.1	0.4	0.2	84.1	82.0
Norway (8)	684	74.5	11.0	8.4	5.0	74.5	1.2	0.0	78.8	69.6
Abu Dhabi, UAE	677	66.9	17.9	8.5	5.7	66.9	1.1	0.0	73.4	61.0
Dubai, UAE	883	75.7	14.5	4.3	4.9	75.7	0.7	0.0	82.3	68.7
Florida, US	297	63.3	18.0	10.4	7.1	63.3	1.2	0.0	61.1	65.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_04 (S062064): Biology / Reasoning Type: CR 1 Point
Label: Bones of a bird are hollow

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	77.6	15.2	77.6	7.1	0.1	76.1	79.3
Bahrain	699	65.7	20.8	65.7	13.1	0.4	74.6	57.9
Botswana	851	32.9	53.8	32.9	13.3	0.0	31.6	34.4
Canada	1252	73.4	18.6	73.4	7.9	0.1	72.6	74.2
Chile	683	58.2	19.1	58.2	21.5	1.1	52.8	63.3
Chinese Taipei	810	80.6	12.0	80.6	7.4	0.0	80.8	80.4
Egypt	1097	30.8	37.9	30.8	31.0	0.2	30.1	31.6
England	684	79.3	10.9	79.3	9.6	0.3	75.9	82.4
Georgia	574	49.5	12.4	49.5	38.0	0.1	44.1	54.2
Hong Kong SAR	588	74.1	20.1	74.1	5.9	0.0	75.1	73.2
Hungary	706	76.6	6.0	76.6	17.4	0.0	77.4	75.7
Iran, Islamic Rep. of	883	62.4	21.2	62.4	16.5	0.0	56.2	67.9
Ireland	676	77.3	17.2	77.3	5.5	0.0	76.8	78.0
Israel	783	65.0	16.2	65.0	18.3	0.6	66.0	64.0
Italy	623	68.0	8.7	68.0	23.3	0.0	66.5	69.7
Japan	684	60.1	33.1	60.1	6.8	0.0	60.3	60.0
Jordan	1122	48.2	28.2	48.2	23.1	0.5	49.8	46.6
Kazakhstan	698	72.7	13.8	72.7	13.6	0.0	74.4	71.0
Korea, Rep. of	762	83.2	13.7	83.2	3.1	0.0	81.4	85.0
Kuwait	600	46.1	24.8	46.1	28.6	0.5	52.6	39.3
Lebanon	554	31.3	18.3	31.3	48.5	1.9	30.7	32.0
Lithuania	630	78.4	11.1	78.4	10.6	0.0	79.1	77.7
Malaysia	1398	32.5	43.6	32.5	23.9	0.0	30.1	34.6
Malta	548	54.8	28.6	54.8	16.6	0.0	55.2	54.5
Morocco	1857	22.1	32.4	22.1	45.4	0.2	22.0	22.2
New Zealand	1142	78.3	12.7	78.3	8.7	0.3	75.8	81.0
Norway	669	51.1	30.0	51.1	18.7	0.2	50.3	52.0
Oman	1245	60.2	23.9	60.2	15.7	0.2	65.3	55.2
Qatar	778	53.8	24.2	53.8	21.5	0.5	58.3	48.9
Russian Federation	683	70.9	7.8	70.9	20.9	0.3	72.4	69.5
Saudi Arabia	522	44.2	32.8	44.2	22.8	0.2	46.6	41.6
Singapore	867	84.8	12.4	84.8	2.8	0.0	84.4	85.1
Slovenia	605	88.2	4.7	88.2	6.9	0.2	89.3	87.3
South Africa	1779	30.3	45.9	30.3	23.6	0.2	29.3	31.5
Sweden	587	61.3	26.9	61.3	11.7	0.1	65.1	58.5
Thailand	939	53.5	23.2	53.5	23.3	0.0	51.1	56.2
Turkey	880	70.9	18.3	70.9	10.8	0.0	71.7	70.2
United Arab Emirates	2557	61.8	24.1	61.8	14.1	0.0	65.8	57.9
United States	1463	82.7	13.0	82.7	4.2	0.1	81.6	83.8
International Avg (n=39)	35923	61.4	21.5	61.4	17.0	0.2	61.5	61.2
Buenos Aires, Argentina	478	45.2	13.3	45.2	37.8	3.6	47.1	43.2
Ontario, Canada	643	77.1	15.9	77.1	6.9	0.0	77.1	77.0
Quebec, Canada	569	63.3	25.3	63.3	11.2	0.2	62.7	64.0
Norway (8)	684	45.7	30.9	45.7	23.4	0.0	46.2	45.2
Abu Dhabi, UAE	677	54.7	29.6	54.7	15.7	0.0	59.9	50.0
Dubai, UAE	883	76.9	14.7	76.9	8.4	0.0	80.3	73.2
Florida, US	297	74.8	16.3	74.8	8.9	0.0	73.5	76.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_05 (S062132): Physics / Applying Type: MC Key: C
Label: Water and tea graphs

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1444	70.8	11.7	4.7	70.8	10.7	2.0	0.1	69.6	72.2
Bahrain	699	45.2	17.1	15.2	45.2	19.9	2.3	0.4	43.3	46.9
Botswana	851	38.0	27.1	18.4	38.0	14.4	2.1	0.0	35.1	41.1
Canada	1251	68.4	13.2	4.2	68.4	12.9	1.3	0.1	66.8	70.0
Chile	683	52.8	14.0	13.6	52.8	14.4	3.9	1.3	47.5	57.6
Chinese Taipei	810	82.3	7.1	3.5	82.3	6.9	0.2	0.0	80.8	83.6
Egypt	1097	35.6	23.3	22.2	35.6	14.8	3.7	0.4	33.4	38.1
England	684	72.0	12.1	4.7	72.0	9.8	1.2	0.3	73.6	70.5
Georgia	574	45.8	14.2	18.5	45.8	15.4	5.7	0.3	39.5	51.2
Hong Kong SAR	588	76.6	6.8	3.5	76.6	12.9	0.2	0.0	72.8	80.0
Hungary	706	72.5	7.9	6.7	72.5	11.8	1.1	0.0	67.9	77.1
Iran, Islamic Rep. of	882	32.1	20.3	16.4	32.1	25.8	5.1	0.3	30.8	33.3
Ireland	676	71.3	11.1	2.6	71.3	13.7	1.2	0.0	70.7	72.0
Israel	783	52.4	14.1	7.8	52.4	22.3	2.8	0.6	51.0	53.7
Italy	623	58.2	12.0	10.9	58.2	10.8	8.1	0.0	53.0	64.3
Japan	684	86.2	8.1	2.0	86.2	3.5	0.1	0.0	88.6	83.9
Jordan	1122	32.3	21.1	21.3	32.3	22.8	2.0	0.5	28.1	36.3
Kazakhstan	698	62.4	12.6	7.6	62.4	15.5	1.9	0.0	62.3	62.6
Korea, Rep. of	762	74.6	7.7	7.9	74.6	9.3	0.4	0.0	76.5	72.9
Kuwait	600	32.9	22.5	21.6	32.9	18.9	3.0	1.1	32.3	33.5
Lebanon	531	43.8	18.3	18.0	43.8	13.0	5.8	1.1	43.0	44.7
Lithuania	630	74.1	8.6	6.2	74.1	10.1	1.0	0.0	73.6	74.6
Malaysia	1398	81.6	6.3	4.5	81.6	7.2	0.4	0.0	85.0	78.7
Malta	548	58.7	15.7	10.0	58.7	11.7	3.7	0.0	57.8	59.6
Morocco	1859	37.5	16.4	26.3	37.5	16.4	3.3	0.2	35.2	39.3
New Zealand	1142	69.6	10.1	7.0	69.6	11.5	1.2	0.5	70.4	68.9
Norway	669	70.9	10.7	3.2	70.9	10.5	4.5	0.2	70.2	71.5
Oman	1246	32.6	26.4	22.8	32.6	15.2	2.8	0.2	31.5	33.7
Qatar	778	45.1	17.0	14.7	45.1	21.0	1.8	0.5	43.3	47.0
Russian Federation	683	70.9	8.9	4.2	70.9	13.0	2.8	0.4	70.9	70.8
Saudi Arabia	520	34.0	21.5	23.8	34.0	19.9	0.6	0.2	36.1	31.7
Singapore	867	81.8	6.6	2.5	81.8	8.5	0.6	0.0	82.5	81.1
Slovenia	605	72.3	9.9	6.5	72.3	9.2	1.8	0.3	72.9	71.7
South Africa	1779	40.2	18.3	23.5	40.2	16.2	1.7	0.2	38.8	41.6
Sweden	587	72.9	8.5	4.5	72.9	11.9	2.1	0.1	72.9	73.5
Thailand	939	48.8	19.6	12.8	48.8	16.3	2.6	0.0	51.4	45.8
Turkey	880	36.5	20.5	13.0	36.5	28.7	1.2	0.0	37.8	35.4
United Arab Emirates	2557	52.8	16.7	11.9	52.8	16.6	2.0	0.0	52.9	52.6
United States	1463	65.8	14.7	6.5	65.8	12.3	0.5	0.2	62.8	68.6
International Avg (n=39)	35898	57.7	14.3	11.2	57.7	14.3	2.3	0.2	56.7	58.8
Buenos Aires, Argentina	466	36.9	11.8	11.9	36.9	14.6	21.6	3.2	36.6	36.8
Ontario, Canada	643	67.8	13.6	3.8	67.8	13.4	1.3	0.0	67.0	68.5
Quebec, Canada	568	69.9	11.6	5.3	69.9	11.5	1.5	0.2	67.4	72.8
Norway (8)	684	68.1	11.6	5.6	68.1	11.4	3.2	0.0	69.0	67.2
Abu Dhabi, UAE	677	49.3	16.9	13.5	49.3	18.6	1.7	0.0	50.8	48.0
Dubai, UAE	883	64.7	12.8	6.6	64.7	14.1	1.9	0.0	66.7	62.5
Florida, US	297	50.1	20.1	8.9	50.1	18.6	2.2	0.0	46.1	54.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_06 (S062163): Physics / Reasoning Type: CR 1 Point
Label: Truck sank into the mud

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	13.3	9.9	74.0	13.3	2.6	0.2	11.4	15.5
Bahrain	705	16.0	17.4	58.5	16.0	7.7	0.3	18.3	14.0
Botswana	851	0.6	12.4	77.5	0.6	9.5	0.0	0.5	0.7
Canada	1252	25.1	15.5	57.0	25.1	2.3	0.1	24.2	26.2
Chile	683	7.2	22.0	57.0	7.2	12.4	1.3	4.8	9.5
Chinese Taipei	810	21.8	23.2	50.6	21.8	4.4	0.0	18.6	24.8
Egypt	1097	1.8	2.7	73.9	1.8	21.3	0.4	2.3	1.1
England	684	33.5	16.8	47.3	33.5	2.1	0.3	37.6	29.8
Georgia	574	7.1	11.5	64.6	7.1	16.5	0.3	5.1	8.9
Hong Kong SAR	588	13.9	16.9	62.2	13.9	6.9	0.0	11.6	16.0
Hungary	706	31.8	14.7	51.1	31.8	2.4	0.0	24.4	39.3
Iran, Islamic Rep. of	882	2.8	6.1	85.9	2.8	4.8	0.3	1.7	3.9
Ireland	676	35.9	13.4	49.3	35.9	1.4	0.0	27.0	45.9
Israel	783	10.7	14.5	67.3	10.7	6.8	0.7	10.7	10.7
Italy	622	12.0	6.8	76.8	12.0	4.5	0.0	6.3	18.6
Japan	684	35.0	23.8	38.8	35.0	2.4	0.0	36.6	33.4
Jordan	1122	3.0	1.8	83.2	3.0	11.6	0.5	3.0	3.0
Kazakhstan	698	31.4	11.9	53.5	31.4	3.2	0.0	32.5	30.3
Korea, Rep. of	762	16.0	38.0	43.3	16.0	2.7	0.0	14.1	17.7
Kuwait	599	3.5	8.7	69.6	3.5	17.0	1.2	4.4	2.6
Lebanon	554	1.7	1.8	62.6	1.7	31.5	2.4	2.4	0.9
Lithuania	630	13.9	14.4	70.2	13.9	1.5	0.0	13.0	14.7
Malaysia	1398	4.3	11.7	76.5	4.3	7.5	0.0	4.9	3.8
Malta	548	19.4	15.7	56.9	19.4	8.0	0.0	19.9	18.9
Morocco	1858	0.8	6.1	70.7	0.8	22.1	0.2	0.8	0.8
New Zealand	1142	18.9	10.3	68.0	18.9	2.3	0.5	16.9	21.1
Norway	669	22.8	18.2	56.5	22.8	2.4	0.2	18.9	26.9
Oman	1246	2.8	18.5	66.4	2.8	12.0	0.2	2.9	2.6
Qatar	778	7.8	13.1	68.8	7.8	9.7	0.5	7.9	7.7
Russian Federation	683	23.3	21.5	49.3	23.3	5.6	0.4	25.8	20.7
Saudi Arabia	522	3.1	13.8	68.6	3.1	14.3	0.2	3.6	2.5
Singapore	866	40.7	21.5	36.4	40.7	1.4	0.1	44.2	37.8
Slovenia	605	34.3	20.9	43.2	34.3	1.3	0.3	37.4	31.6
South Africa	1779	1.4	0.6	88.5	1.4	9.3	0.2	1.0	1.8
Sweden	587	30.0	17.1	49.6	30.0	3.2	0.1	27.2	32.7
Thailand	939	3.9	22.3	60.8	3.9	13.1	0.0	2.9	5.0
Turkey	880	34.6	25.7	35.5	34.6	4.3	0.0	38.1	31.4
United Arab Emirates	2557	12.6	13.9	67.2	12.6	6.4	0.0	13.8	11.3
United States	1463	14.5	13.8	69.7	14.5	1.8	0.3	11.3	17.6
International Avg (n=39)	35927	15.7	14.6	61.7	15.7	7.7	0.3	15.1	16.5
Buenos Aires, Argentina	478	2.4	10.0	62.3	2.4	21.5	3.8	2.6	2.2
Ontario, Canada	643	29.5	13.0	55.7	29.5	1.8	0.0	30.6	28.6
Quebec, Canada	569	17.5	15.6	62.8	17.5	3.9	0.2	15.6	19.8
Norway (8)	684	15.1	19.7	61.6	15.1	3.5	0.0	13.5	16.9
Abu Dhabi, UAE	677	7.5	15.2	70.6	7.5	6.6	0.0	9.6	5.6
Dubai, UAE	883	22.7	16.0	57.8	22.7	3.5	0.0	23.5	21.8
Florida, US	297	8.0	14.1	75.4	8.0	2.5	0.0	8.3	7.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_07 (S062153): Physics / Reasoning Type: MC Key: C
Label: Flashlight on blue ball

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	46.2	10.5	17.5	46.2	23.6	2.0	0.2	45.3	47.2
Bahrain	705	42.3	12.8	12.3	42.3	29.2	3.1	0.3	43.0	41.6
Botswana	851	35.8	14.2	18.2	35.8	29.6	2.1	0.0	36.3	35.3
Canada	1249	47.4	11.5	16.8	47.4	23.1	1.1	0.1	43.7	51.6
Chile	683	36.8	11.6	17.0	36.8	28.4	4.7	1.6	40.7	33.1
Chinese Taipei	810	63.4	10.9	10.6	63.4	14.6	0.5	0.0	60.1	66.6
Egypt	1097	33.2	14.2	21.4	33.2	25.0	5.7	0.4	34.1	32.2
England	684	55.3	12.5	12.6	55.3	18.5	0.8	0.3	55.1	55.5
Georgia	574	46.1	14.4	11.3	46.1	22.2	5.6	0.3	48.1	44.4
Hong Kong SAR	588	59.2	11.1	10.7	59.2	16.7	2.3	0.0	55.9	62.1
Hungary	706	53.0	10.4	11.3	53.0	23.9	1.4	0.0	53.5	52.4
Iran, Islamic Rep. of	883	39.4	15.4	14.8	39.4	25.1	5.0	0.3	37.3	41.4
Ireland	676	46.6	12.2	12.3	46.6	26.2	2.7	0.0	45.3	48.1
Israel	783	48.7	7.9	17.5	48.7	21.2	3.7	1.0	44.4	52.5
Italy	623	41.3	14.1	17.2	41.3	23.2	4.1	0.0	43.3	39.0
Japan	684	58.8	11.2	8.8	58.8	19.9	1.2	0.2	61.1	56.5
Jordan	1122	36.2	13.5	19.5	36.2	27.2	3.0	0.5	35.6	36.9
Kazakhstan	698	47.1	13.8	16.0	47.1	21.3	1.8	0.0	44.1	50.0
Korea, Rep. of	762	65.3	15.4	11.2	65.3	7.6	0.5	0.0	64.7	65.8
Kuwait	600	33.2	16.7	20.3	33.2	23.1	5.4	1.2	33.3	33.1
Lebanon	525	37.0	16.3	18.4	37.0	16.3	10.6	1.4	36.6	37.4
Lithuania	630	49.9	17.5	20.8	49.9	9.6	2.1	0.0	48.3	51.3
Malaysia	1398	37.4	7.8	20.4	37.4	32.8	1.5	0.0	38.2	36.7
Malta	548	38.1	11.8	14.7	38.1	31.8	3.6	0.0	35.5	40.6
Morocco	1856	25.7	18.1	29.2	25.7	21.4	5.4	0.2	26.8	24.8
New Zealand	1142	57.9	10.7	12.8	57.9	16.1	2.0	0.5	56.7	59.2
Norway	669	49.1	13.1	14.2	49.1	20.9	2.6	0.2	48.8	49.4
Oman	1246	35.1	14.9	18.1	35.1	27.4	4.3	0.2	33.8	36.3
Qatar	778	47.3	12.5	16.5	47.3	19.5	3.5	0.6	47.9	46.6
Russian Federation	683	48.5	10.2	15.6	48.5	21.3	4.0	0.4	47.8	49.1
Saudi Arabia	522	35.6	11.8	20.6	35.6	29.0	2.8	0.2	37.2	33.9
Singapore	866	61.7	9.0	7.2	61.7	21.0	1.0	0.1	57.4	65.3
Slovenia	605	65.4	8.9	8.8	65.4	14.8	1.8	0.3	66.0	64.8
South Africa	1779	35.4	18.1	21.8	35.4	21.9	2.4	0.3	34.0	37.0
Sweden	587	50.8	10.7	11.6	50.8	24.1	2.5	0.3	46.4	54.5
Thailand	939	24.5	9.5	19.8	24.5	44.2	2.0	0.0	18.9	30.9
Turkey	880	52.4	19.3	11.1	52.4	16.8	0.5	0.0	57.9	47.4
United Arab Emirates	2557	43.8	12.3	16.7	43.8	24.2	3.0	0.1	43.2	44.3
United States	1463	50.2	14.0	15.6	50.2	18.5	1.5	0.3	48.1	52.2
International Avg (n=39)	35896	45.7	12.9	15.7	45.7	22.6	2.9	0.3	45.0	46.3
Buenos Aires, Argentina	467	24.5	15.2	15.8	24.5	24.0	17.3	3.2	27.8	21.3
Ontario, Canada	643	48.6	9.6	17.0	48.6	23.9	0.9	0.0	45.9	51.5
Quebec, Canada	566	48.1	13.9	16.9	48.1	19.0	1.9	0.2	46.0	50.5
Norway (8)	684	46.9	12.8	15.2	46.9	22.5	2.5	0.0	46.7	47.3
Abu Dhabi, UAE	677	44.2	11.7	15.4	44.2	26.3	2.3	0.1	43.1	45.1
Dubai, UAE	883	53.8	12.9	13.1	53.8	17.6	2.5	0.0	54.3	53.3
Florida, US	297	50.5	15.0	16.5	50.5	16.0	2.0	0.0	45.6	55.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_08 (S062018): Chemistry / Knowing Type: CR 2 Points
Label: Element, compound, mixture (DERIVED)

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	6.1	10.0	81.9	16.1	6.1	1.8	0.2	4.8	7.6
Bahrain	705	9.7	12.0	75.2	21.7	9.7	2.8	0.3	12.2	7.6
Botswana	851	4.2	6.9	79.2	11.2	4.2	9.7	0.0	3.6	5.0
Canada	1244	5.0	7.0	87.1	12.1	5.0	0.7	0.1	5.6	4.4
Chile	683	3.3	4.3	87.5	7.5	3.3	3.4	1.6	3.1	3.4
Chinese Taipei	810	32.5	27.9	39.6	60.4	32.5	0.1	0.0	29.5	35.2
Egypt	1097	11.4	10.3	69.9	21.7	11.4	7.8	0.6	10.2	12.8
England	684	11.4	14.7	71.0	26.2	11.4	2.5	0.3	11.5	11.4
Georgia	574	12.4	13.7	70.1	26.1	12.4	3.4	0.3	15.4	9.8
Hong Kong SAR	588	11.3	15.4	72.3	26.8	11.3	0.9	0.0	9.5	12.9
Hungary	706	19.3	20.4	59.9	39.7	19.3	0.4	0.0	17.1	21.5
Iran, Islamic Rep. of	883	5.9	6.8	84.9	12.7	5.9	1.9	0.5	5.1	6.6
Ireland	676	9.0	15.5	74.1	24.4	9.0	1.1	0.3	9.9	7.8
Israel	783	16.7	15.3	62.7	32.0	16.7	4.1	1.2	17.8	15.8
Italy	623	5.1	6.2	87.4	11.3	5.1	1.3	0.0	4.1	6.2
Japan	684	9.4	24.6	65.5	34.0	9.4	0.3	0.2	8.9	9.9
Jordan	1122	5.5	11.0	78.2	16.5	5.5	4.7	0.5	4.2	6.8
Kazakhstan	698	40.0	13.7	45.2	53.6	40.0	1.1	0.0	42.4	37.6
Korea, Rep. of	762	5.1	12.1	82.3	17.2	5.1	0.5	0.0	3.8	6.3
Kuwait	600	6.0	7.7	83.2	13.7	6.0	1.9	1.2	2.7	9.3
Lebanon	523	7.8	12.0	71.3	19.8	7.8	7.4	1.5	7.9	7.6
Lithuania	630	6.5	15.1	77.2	21.6	6.5	1.1	0.0	7.5	5.6
Malaysia	1398	3.9	5.3	89.2	9.2	3.9	1.6	0.0	3.2	4.6
Malta	548	11.2	10.7	75.6	21.8	11.2	2.6	0.0	10.5	11.8
Morocco	1856	6.8	12.8	76.5	19.5	6.8	3.7	0.3	6.4	7.1
New Zealand	1142	7.1	12.2	78.0	19.4	7.1	2.1	0.5	7.0	7.3
Norway	669	6.7	10.3	80.4	17.0	6.7	2.3	0.3	6.1	7.4
Oman	1244	12.0	11.0	73.7	23.0	12.0	3.0	0.2	16.7	7.4
Qatar	778	9.8	13.8	69.2	23.5	9.8	6.5	0.8	8.1	11.6
Russian Federation	683	33.9	11.2	52.2	45.1	33.9	2.1	0.5	37.7	30.1
Saudi Arabia	517	4.0	5.1	88.9	9.1	4.0	1.8	0.2	4.2	3.9
Singapore	866	26.1	23.0	50.5	49.1	26.1	0.2	0.1	25.4	26.7
Slovenia	605	26.4	31.4	40.8	57.8	26.4	1.1	0.3	25.5	27.2
South Africa	1779	2.1	6.2	81.0	8.3	2.1	10.3	0.4	2.1	2.0
Sweden	587	4.6	7.1	86.1	11.7	4.6	1.7	0.4	3.4	5.8
Thailand	928	6.0	9.7	80.1	15.7	6.0	4.1	0.1	5.2	6.9
Turkey	880	9.1	13.8	75.4	23.0	9.1	1.6	0.0	10.6	7.8
United Arab Emirates	2557	15.9	14.7	68.7	30.6	15.9	0.5	0.1	17.2	14.7
United States	1463	9.4	12.8	76.2	22.2	9.4	1.3	0.4	7.7	11.0
International Avg (n=39)	35871	11.2	12.7	73.0	23.9	11.2	2.7	0.3	11.1	11.4
Buenos Aires, Argentina	462	5.0	1.9	71.1	6.9	5.0	18.7	3.4	3.1	6.4
Ontario, Canada	637	3.4	6.0	89.8	9.4	3.4	0.7	0.1	2.9	3.9
Quebec, Canada	567	9.3	9.3	80.3	18.7	9.3	0.8	0.2	11.7	6.5
Norway (8)	684	6.0	9.3	81.8	15.3	6.0	2.9	0.0	5.0	7.1
Abu Dhabi, UAE	677	11.9	12.0	75.2	23.9	11.9	0.8	0.1	14.8	9.3
Dubai, UAE	883	23.7	19.4	56.4	43.2	23.7	0.3	0.1	24.5	22.9
Florida, US	297	8.1	9.2	81.5	17.3	8.1	0.9	0.4	3.8	12.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_08A (S062018A): Chemistry / Knowing Type: MC Key: B
Label: Element, compound, mixture: sugar

COUNTRY	N	DIFF %	A %	B %	C %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	46.0	15.4	46.0	34.7	3.7	0.2	42.5	50.0
Bahrain	705	41.5	33.0	41.5	21.4	3.8	0.3	46.9	36.7
Botswana	851	23.6	15.4	23.6	45.3	15.6	0.0	22.4	25.0
Canada	1250	46.7	18.1	46.7	33.6	1.4	0.1	43.0	50.9
Chile	683	36.0	24.5	36.0	33.5	4.5	1.6	36.2	35.7
Chinese Taipei	810	56.7	10.5	56.7	32.4	0.4	0.0	54.9	58.3
Egypt	1097	39.2	31.6	39.2	16.6	12.0	0.6	40.2	38.0
England	684	39.7	17.1	39.7	39.3	3.6	0.3	41.5	38.1
Georgia	574	42.7	16.9	42.7	32.3	7.7	0.3	46.1	39.8
Hong Kong SAR	588	45.3	24.5	45.3	28.8	1.5	0.0	40.3	49.7
Hungary	706	46.7	21.9	46.7	30.2	1.2	0.0	45.9	47.6
Iran, Islamic Rep. of	883	42.3	36.3	42.3	16.1	4.8	0.5	44.7	40.2
Ireland	676	41.8	16.6	41.8	39.6	1.6	0.3	42.0	41.6
Israel	783	55.4	18.6	55.4	20.1	4.8	1.2	54.9	55.8
Italy	623	40.6	41.1	40.6	15.2	3.1	0.0	36.0	46.0
Japan	684	35.2	33.4	35.2	30.7	0.6	0.2	32.8	37.5
Jordan	1122	40.6	30.3	40.6	21.4	7.3	0.5	40.4	40.8
Kazakhstan	698	49.7	10.7	49.7	36.2	3.4	0.0	50.5	48.9
Korea, Rep. of	762	35.9	29.8	35.9	31.8	2.5	0.0	36.4	35.4
Kuwait	600	41.1	35.9	41.1	17.4	4.4	1.2	41.7	40.5
Lebanon	531	36.7	35.7	36.7	16.2	9.9	1.5	36.9	36.3
Lithuania	630	33.2	20.7	33.2	44.5	1.5	0.0	31.5	34.7
Malaysia	1398	37.4	31.7	37.4	28.2	2.7	0.0	37.0	37.7
Malta	548	41.1	22.2	41.1	33.1	3.6	0.0	39.6	42.5
Morocco	1856	47.8	27.4	47.8	18.7	5.7	0.3	46.9	48.6
New Zealand	1142	42.3	9.9	42.3	43.8	3.5	0.5	42.0	42.6
Norway	669	37.5	21.2	37.5	37.4	3.6	0.3	34.3	41.0
Oman	1244	41.8	35.4	41.8	16.7	5.8	0.2	48.2	35.6
Qatar	778	37.7	32.4	37.7	21.2	8.0	0.8	38.6	36.6
Russian Federation	683	57.8	14.4	57.8	22.3	4.9	0.5	61.0	54.7
Saudi Arabia	520	33.3	40.3	33.3	22.3	4.0	0.2	35.9	30.5
Singapore	866	60.4	15.3	60.4	22.9	1.3	0.1	59.4	61.2
Slovenia	605	43.4	17.1	43.4	37.9	1.2	0.3	43.9	43.0
South Africa	1779	23.9	14.1	23.9	47.5	14.2	0.4	22.0	26.0
Sweden	587	38.6	22.7	38.6	34.3	3.9	0.4	39.2	38.1
Thailand	931	45.2	8.4	45.2	41.2	5.0	0.1	42.2	48.7
Turkey	880	49.0	14.5	49.0	33.0	3.5	0.0	54.5	44.0
United Arab Emirates	2557	48.1	20.5	48.1	27.3	4.0	0.1	50.4	45.8
United States	1463	44.9	14.2	44.9	38.2	2.2	0.4	44.8	45.0
International Avg (n=39)	35891	42.2	23.1	42.2	29.8	4.5	0.3	42.3	42.3
Buenos Aires, Argentina	467	30.5	29.6	30.5	15.1	21.4	3.3	29.9	30.3
Ontario, Canada	642	45.1	16.3	45.1	36.8	1.7	0.1	41.1	49.4
Quebec, Canada	568	49.6	24.0	49.6	25.1	1.0	0.2	45.6	54.4
Norway (8)	684	32.6	28.1	32.6	34.9	4.3	0.0	29.8	35.7
Abu Dhabi, UAE	677	42.1	22.5	42.1	28.0	7.3	0.1	47.3	37.3
Dubai, UAE	883	53.7	20.8	53.7	24.1	1.3	0.1	54.5	53.0
Florida, US	297	45.8	16.7	45.8	34.5	2.7	0.4	45.0	46.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_08B (S062018B): Chemistry / Knowing Type: MC Key: A
Label: Element, compound, mixture: iron

COUNTRY	N	DIFF %	A %	B %	C %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	65.0	65.0	27.8	3.5	3.6	0.2	63.6	66.5
Bahrain	705	57.4	57.4	30.9	7.4	4.0	0.3	64.8	50.9
Botswana	851	53.1	53.1	23.3	7.2	16.3	0.0	58.1	47.7
Canada	1248	54.3	54.3	35.6	8.5	1.4	0.1	48.7	60.5
Chile	683	57.2	57.2	27.9	8.3	5.0	1.6	55.4	58.9
Chinese Taipei	810	74.2	74.2	12.0	13.1	0.7	0.0	73.5	74.8
Egypt	1097	56.4	56.4	19.8	10.4	12.8	0.6	57.5	55.1
England	684	65.9	65.9	27.3	3.2	3.4	0.3	67.3	64.6
Georgia	574	55.9	55.9	22.4	13.1	8.3	0.3	59.1	53.2
Hong Kong SAR	588	53.5	53.5	24.9	19.6	1.9	0.0	48.5	57.9
Hungary	706	81.0	81.0	12.9	4.6	1.5	0.0	79.8	82.2
Iran, Islamic Rep. of	883	62.2	62.2	22.8	9.5	5.1	0.5	63.2	61.2
Ireland	676	60.2	60.2	28.5	8.6	2.3	0.3	62.5	57.6
Israel	783	69.3	69.3	18.1	6.1	5.4	1.2	73.7	65.3
Italy	623	59.4	59.4	28.2	8.6	3.8	0.0	57.4	61.8
Japan	684	65.7	65.7	23.3	10.0	0.9	0.2	66.0	65.4
Jordan	1122	66.5	66.5	20.7	5.9	6.4	0.5	72.8	60.4
Kazakhstan	698	86.4	86.4	6.2	4.8	2.6	0.0	86.8	86.0
Korea, Rep. of	762	60.4	60.4	24.1	13.2	2.3	0.0	57.7	62.9
Kuwait	600	59.1	59.1	30.9	5.3	3.6	1.2	61.3	56.8
Lebanon	531	57.4	57.4	19.6	11.3	10.1	1.5	58.7	56.0
Lithuania	630	71.5	71.5	19.0	7.6	1.9	0.0	68.4	74.3
Malaysia	1398	42.1	42.1	35.8	19.0	3.1	0.0	39.0	44.9
Malta	548	59.5	59.5	29.6	7.5	3.5	0.0	58.0	60.9
Morocco	1856	50.7	50.7	33.4	8.8	6.7	0.3	46.7	53.9
New Zealand	1142	70.2	70.2	20.5	5.3	3.5	0.5	71.1	69.1
Norway	669	69.5	69.5	16.0	10.0	4.2	0.3	69.1	69.8
Oman	1246	55.2	55.2	32.1	5.5	6.9	0.2	62.1	48.5
Qatar	778	59.7	59.7	24.3	7.9	7.3	0.8	55.5	64.3
Russian Federation	683	73.8	73.8	19.6	2.8	3.3	0.5	72.9	74.6
Saudi Arabia	520	50.8	50.8	37.8	6.2	5.0	0.2	54.4	46.8
Singapore	866	76.2	76.2	17.6	4.3	1.8	0.1	77.7	75.0
Slovenia	605	82.3	82.3	11.2	4.6	1.6	0.3	82.9	81.8
South Africa	1779	57.6	57.6	24.5	4.1	13.5	0.4	61.2	53.4
Sweden	587	71.6	71.6	16.0	9.3	2.7	0.4	71.7	71.7
Thailand	932	78.8	78.8	9.7	5.7	5.6	0.1	80.9	76.4
Turkey	880	73.6	73.6	19.2	4.1	3.1	0.0	75.5	71.8
United Arab Emirates	2557	66.7	66.7	24.4	5.2	3.6	0.1	70.1	63.4
United States	1463	73.7	73.7	20.1	3.3	2.5	0.4	74.1	73.2
International Avg (n=39)	35892	64.2	64.2	23.0	7.8	4.6	0.3	64.8	63.6
Buenos Aires, Argentina	467	37.2	37.2	26.9	11.8	20.7	3.3	35.6	38.5
Ontario, Canada	640	48.2	48.2	41.7	8.6	1.5	0.1	42.1	54.5
Quebec, Canada	568	65.0	65.0	24.5	8.6	1.7	0.2	58.4	72.7
Norway (8)	684	58.6	58.6	22.4	13.7	5.3	0.0	56.3	61.2
Abu Dhabi, UAE	677	63.9	63.9	24.8	5.4	5.8	0.1	72.0	56.5
Dubai, UAE	883	74.5	74.5	19.7	4.1	1.5	0.1	74.2	74.8
Florida, US	297	72.3	72.3	21.5	4.0	1.8	0.4	64.8	79.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_08C (S062018C): Chemistry / Knowing Type: MC Key: C
Label: Element, compound, mixture: air

COUNTRY	N	DIFF %	A %	B %	C %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	26.3	41.5	27.4	26.3	4.7	0.2	25.5	27.2
Bahrain	705	35.9	31.6	27.9	35.9	4.3	0.3	37.5	34.4
Botswana	851	30.7	21.4	31.0	30.7	16.9	0.0	27.3	34.4
Canada	1248	25.0	53.3	19.8	25.0	1.8	0.1	24.3	25.8
Chile	683	16.5	43.0	33.9	16.5	5.1	1.6	17.7	15.3
Chinese Taipei	810	72.8	17.6	9.2	72.8	0.4	0.0	75.6	70.2
Egypt	1097	36.0	20.6	28.0	36.0	14.8	0.6	33.3	39.1
England	684	36.8	34.1	25.3	36.8	3.5	0.3	38.2	35.6
Georgia	574	52.5	15.4	22.0	52.5	9.7	0.3	53.6	51.5
Hong Kong SAR	588	44.7	41.8	11.3	44.7	2.1	0.0	48.2	41.6
Hungary	706	54.7	16.8	26.5	54.7	2.0	0.0	57.1	52.2
Iran, Islamic Rep. of	883	27.8	20.4	46.6	27.8	4.8	0.5	28.7	27.0
Ireland	676	44.0	27.5	25.7	44.0	2.5	0.3	45.2	42.6
Israel	783	47.9	17.8	27.0	47.9	6.1	1.2	51.3	44.8
Italy	623	24.8	39.2	32.9	24.8	3.2	0.0	25.8	23.6
Japan	684	62.0	19.6	17.6	62.0	0.6	0.2	63.9	60.1
Jordan	1122	30.6	29.5	32.5	30.6	6.9	0.5	30.5	30.7
Kazakhstan	698	63.1	6.6	26.7	63.1	3.6	0.0	67.3	59.1
Korea, Rep. of	762	47.5	30.6	19.9	47.5	2.0	0.0	47.6	47.4
Kuwait	600	24.6	33.4	35.8	24.6	5.1	1.2	21.5	27.8
Lebanon	529	38.5	19.1	31.5	38.5	9.4	1.5	40.3	36.4
Lithuania	630	41.7	20.1	35.9	41.7	2.3	0.0	43.1	40.5
Malaysia	1398	35.7	41.0	20.4	35.7	2.9	0.0	35.6	35.8
Malta	548	37.6	33.5	24.4	37.6	4.4	0.0	39.9	35.5
Morocco	1856	49.1	26.7	17.3	49.1	6.6	0.3	51.4	47.3
New Zealand	1142	29.0	34.6	32.1	29.0	3.8	0.5	29.3	28.6
Norway	669	24.8	33.0	36.6	24.8	5.3	0.3	24.8	24.7
Oman	1246	44.0	24.8	23.7	44.0	7.4	0.2	50.9	37.2
Qatar	778	36.2	24.9	30.1	36.2	8.1	0.8	34.9	37.6
Russian Federation	683	60.6	17.8	16.5	60.6	4.5	0.5	65.6	55.6
Saudi Arabia	519	25.9	41.3	26.2	25.9	6.4	0.2	29.1	22.5
Singapore	866	61.8	15.4	20.6	61.8	2.1	0.1	62.8	61.0
Slovenia	605	79.8	3.9	14.3	79.8	1.7	0.3	84.7	75.6
South Africa	1779	22.8	23.6	38.3	22.8	15.0	0.4	24.6	20.9
Sweden	587	22.3	38.9	35.1	22.3	3.3	0.4	21.1	23.6
Thailand	936	22.1	36.3	34.7	22.1	6.8	0.1	17.1	27.8
Turkey	880	38.9	23.6	34.2	38.9	3.3	0.0	43.3	35.0
United Arab Emirates	2557	42.6	27.1	25.6	42.6	4.6	0.1	45.6	39.7
United States	1463	27.7	36.4	31.7	27.7	3.9	0.4	27.1	28.2
International Avg (n=39)	35893	39.6	27.8	27.1	39.6	5.2	0.3	40.8	38.6
Buenos Aires, Argentina	465	18.9	27.2	31.0	18.9	19.6	3.3	16.6	20.5
Ontario, Canada	640	24.4	61.6	11.8	24.4	2.0	0.1	23.6	25.4
Quebec, Canada	568	26.3	37.1	34.7	26.3	1.6	0.2	26.5	26.2
Norway (8)	684	28.4	35.9	30.5	28.4	5.2	0.0	27.5	29.3
Abu Dhabi, UAE	677	36.8	29.2	29.3	36.8	4.6	0.1	41.0	32.9
Dubai, UAE	883	56.8	18.4	22.3	56.8	2.4	0.1	60.3	53.1
Florida, US	297	25.9	40.6	31.2	25.9	1.9	0.4	19.9	31.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_08D (S062018D): Chemistry / Knowing Type: MC Key: B
Label: Element, compound, mixture: sodium bicarb

COUNTRY	N	DIFF %	A %	B %	C %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	30.1	6.2	30.1	60.5	3.1	0.2	29.6	30.6
Bahrain	705	46.6	17.8	46.6	31.3	3.9	0.3	49.0	44.6
Botswana	851	29.4	17.7	29.4	34.9	18.0	0.0	28.6	30.2
Canada	1249	31.7	12.5	31.7	53.9	1.8	0.1	33.4	30.0
Chile	683	38.8	7.9	38.8	46.2	5.6	1.6	42.2	35.6
Chinese Taipei	810	71.0	7.3	71.0	20.7	0.9	0.0	71.2	70.9
Egypt	1097	48.1	13.6	48.1	23.6	14.0	0.6	45.5	51.0
England	684	45.9	7.3	45.9	43.0	3.5	0.3	47.1	44.8
Georgia	574	39.3	6.1	39.3	44.7	9.6	0.3	42.5	36.6
Hong Kong SAR	588	60.9	11.7	60.9	25.3	2.1	0.0	63.3	58.9
Hungary	706	53.2	7.2	53.2	38.6	1.1	0.0	52.3	54.1
Iran, Islamic Rep. of	883	37.1	28.8	37.1	27.2	6.4	0.5	38.5	35.8
Ireland	676	45.0	11.8	45.0	40.8	2.1	0.3	44.1	46.1
Israel	783	51.0	17.6	51.0	24.3	5.9	1.2	54.4	47.9
Italy	623	43.4	7.5	43.4	45.9	3.3	0.0	46.0	40.3
Japan	684	60.7	5.4	60.7	33.3	0.5	0.2	59.2	62.2
Jordan	1122	50.0	17.4	50.0	25.4	6.7	0.5	54.1	46.0
Kazakhstan	698	69.1	12.9	69.1	13.5	4.4	0.0	69.5	68.7
Korea, Rep. of	762	53.6	13.0	53.6	31.8	1.6	0.0	51.3	55.8
Kuwait	600	47.3	15.4	47.3	30.4	5.7	1.2	49.3	45.3
Lebanon	530	47.5	10.1	47.5	32.4	8.5	1.5	49.4	45.3
Lithuania	630	43.2	14.3	43.2	40.5	2.0	0.0	42.8	43.5
Malaysia	1398	38.9	14.1	38.9	44.4	2.5	0.0	38.8	39.0
Malta	548	42.9	11.0	42.9	42.1	4.0	0.0	45.1	40.8
Morocco	1856	40.8	17.1	40.8	34.6	7.1	0.3	44.1	38.1
New Zealand	1142	38.0	11.9	38.0	45.9	3.7	0.5	36.6	39.5
Norway	669	54.3	11.2	54.3	30.8	3.3	0.3	54.5	54.1
Oman	1246	50.7	14.6	50.7	27.1	7.3	0.2	56.7	44.9
Qatar	778	48.5	9.4	48.5	34.1	7.2	0.8	51.6	45.3
Russian Federation	683	51.9	2.9	51.9	40.1	4.5	0.5	57.3	46.6
Saudi Arabia	522	39.5	21.9	39.5	33.4	5.1	0.2	41.3	37.5
Singapore	866	66.0	4.0	66.0	28.7	1.3	0.1	65.1	66.8
Slovenia	605	81.3	5.1	81.3	11.8	1.6	0.3	82.5	80.2
South Africa	1779	30.1	18.2	30.1	37.5	13.8	0.4	32.5	27.4
Sweden	587	32.7	6.1	32.7	55.2	5.6	0.4	32.2	32.7
Thailand	935	50.9	20.7	50.9	22.7	5.6	0.1	54.2	47.1
Turkey	880	40.1	16.0	40.1	41.1	2.8	0.0	39.0	41.0
United Arab Emirates	2557	52.3	13.2	52.3	31.5	2.9	0.1	55.0	49.6
United States	1463	44.9	9.9	44.9	41.8	3.0	0.4	43.2	46.5
International Avg (n=39)	35897	47.4	12.2	47.4	35.2	4.9	0.3	48.5	46.2
Buenos Aires, Argentina	466	28.1	9.1	28.1	35.8	23.7	3.3	27.6	28.5
Ontario, Canada	642	29.2	15.1	29.2	53.6	2.0	0.1	28.0	30.5
Quebec, Canada	567	37.0	6.2	37.0	55.1	1.4	0.2	44.5	28.3
Norway (8)	684	49.5	15.8	49.5	27.5	7.2	0.0	51.1	47.9
Abu Dhabi, UAE	677	49.5	14.8	49.5	31.0	4.7	0.1	53.1	46.3
Dubai, UAE	883	59.5	6.7	59.5	32.5	1.3	0.1	62.0	56.8
Florida, US	297	44.8	13.4	44.8	38.5	3.0	0.4	42.5	47.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_08E (S062018E): Chemistry / Knowing Type: MC Key: A
Label: Element, compound, mixture: cobalt

COUNTRY	N	DIFF %	A %	B %	C %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	42.3	42.3	35.8	17.3	4.4	0.2	39.7	45.3
Bahrain	705	41.6	41.6	25.2	28.3	4.5	0.3	43.5	40.0
Botswana	851	34.1	34.1	31.6	15.1	19.2	0.0	34.9	33.2
Canada	1249	30.3	30.3	42.8	24.9	1.8	0.1	25.4	35.8
Chile	683	30.6	30.6	31.8	27.5	8.6	1.6	28.2	32.7
Chinese Taipei	810	79.8	79.8	13.2	6.3	0.7	0.0	83.4	76.5
Egypt	1097	37.3	37.3	24.1	24.2	13.8	0.6	37.8	36.8
England	684	48.4	48.4	32.3	14.6	4.4	0.3	52.7	44.4
Georgia	574	50.4	50.4	22.8	13.8	12.7	0.3	55.5	46.0
Hong Kong SAR	588	45.3	45.3	34.1	18.9	1.7	0.0	43.8	46.7
Hungary	706	67.1	67.1	20.6	10.5	1.7	0.0	63.4	71.0
Iran, Islamic Rep. of	883	32.4	32.4	26.0	31.7	9.5	0.5	28.6	35.9
Ireland	676	51.8	51.8	31.1	15.0	1.8	0.3	52.4	51.1
Israel	783	40.4	40.4	23.6	26.6	8.3	1.2	42.5	38.5
Italy	623	30.3	30.3	27.9	36.1	5.7	0.0	29.0	31.9
Japan	684	46.6	46.6	33.6	18.8	0.8	0.2	41.5	51.8
Jordan	1122	30.6	30.6	28.5	32.2	8.2	0.5	32.0	29.2
Kazakhstan	698	79.2	79.2	9.0	8.2	3.6	0.0	82.5	76.1
Korea, Rep. of	762	24.0	24.0	48.5	24.7	2.8	0.0	20.1	27.6
Kuwait	600	35.5	35.5	27.3	29.8	6.2	1.2	34.2	36.7
Lebanon	525	39.6	39.6	19.2	25.0	14.7	1.5	42.1	36.8
Lithuania	630	53.0	53.0	28.2	15.5	3.2	0.0	54.3	51.9
Malaysia	1398	26.1	26.1	38.5	31.8	3.6	0.0	25.7	26.5
Malta	548	43.1	43.1	31.0	21.1	4.8	0.0	41.5	44.6
Morocco	1856	34.6	34.6	30.0	25.9	9.2	0.3	36.6	33.1
New Zealand	1142	39.2	39.2	37.8	18.5	4.0	0.5	35.1	43.5
Norway	669	43.9	43.9	30.2	21.5	4.1	0.3	42.3	45.6
Oman	1246	36.3	36.3	28.8	26.0	8.7	0.2	40.8	31.8
Qatar	778	49.2	49.2	23.0	18.7	8.4	0.8	51.2	46.9
Russian Federation	683	63.5	63.5	21.6	9.2	5.1	0.5	67.0	60.1
Saudi Arabia	522	32.7	32.7	30.1	30.7	6.4	0.2	41.3	23.4
Singapore	866	57.3	57.3	25.3	14.9	2.5	0.1	56.3	58.1
Slovenia	605	66.6	66.6	14.9	14.9	3.3	0.3	64.9	68.1
South Africa	1779	31.7	31.7	31.4	22.1	14.4	0.4	34.9	28.1
Sweden	587	34.1	34.1	35.0	24.0	6.5	0.4	26.2	41.0
Thailand	932	36.7	36.7	35.4	22.0	5.7	0.1	36.6	36.9
Turkey	880	42.5	42.5	29.1	24.8	3.6	0.0	43.2	41.9
United Arab Emirates	2557	51.6	51.6	25.3	18.5	4.5	0.1	52.7	50.5
United States	1463	51.0	51.0	29.3	16.4	2.9	0.4	49.1	52.8
International Avg (n=39)	35889	43.9	43.9	28.6	21.2	6.0	0.3	43.9	43.8
Buenos Aires, Argentina	466	27.0	27.0	18.7	22.7	28.2	3.3	26.8	26.8
Ontario, Canada	641	23.2	23.2	49.2	26.0	1.5	0.1	18.2	28.3
Quebec, Canada	568	45.8	45.8	28.3	23.2	2.4	0.2	41.0	51.5
Norway (8)	684	34.7	34.7	26.0	33.1	6.2	0.0	34.3	35.1
Abu Dhabi, UAE	677	44.6	44.6	26.5	22.1	6.8	0.1	48.7	40.8
Dubai, UAE	883	60.4	60.4	22.6	15.2	1.7	0.1	58.5	62.4
Florida, US	297	43.6	43.6	33.7	20.4	2.0	0.4	37.2	49.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_09 (S062143): Physics / Applying Type: CR 1 Point
Label: Heating water in test tube

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	12.1	77.0	12.1	10.8	0.2	7.3	17.7
Bahrain	705	15.5	65.4	15.5	18.7	0.3	17.6	13.7
Botswana	852	1.7	85.6	1.7	12.7	0.0	2.0	1.2
Canada	1252	20.0	70.0	20.0	9.7	0.3	20.4	19.6
Chile	683	2.4	64.1	2.4	31.9	1.6	1.3	3.4
Chinese Taipei	810	31.9	56.0	31.9	12.1	0.0	33.2	30.6
Egypt	1097	1.2	65.8	1.2	32.2	0.8	1.8	0.6
England	684	11.9	73.8	11.9	13.9	0.5	13.4	10.4
Georgia	574	8.0	49.8	8.0	41.8	0.3	5.2	10.4
Hong Kong SAR	588	7.0	79.5	7.0	13.5	0.0	3.7	9.9
Hungary	706	16.4	63.2	16.4	20.3	0.2	14.3	18.4
Iran, Islamic Rep. of	883	7.0	62.8	7.0	29.8	0.5	5.6	8.2
Ireland	676	29.5	59.3	29.5	10.9	0.3	26.2	33.1
Israel	783	9.1	65.9	9.1	23.6	1.4	10.9	7.4
Italy	622	8.2	60.4	8.2	31.4	0.0	5.1	11.9
Japan	684	28.3	60.6	28.3	10.9	0.2	28.8	27.8
Jordan	1122	3.7	77.1	3.7	18.6	0.7	5.2	2.2
Kazakhstan	698	36.7	48.7	36.7	14.5	0.1	36.3	37.2
Korea, Rep. of	762	21.5	68.5	21.5	10.0	0.0	18.2	24.5
Kuwait	600	7.2	60.1	7.2	31.6	1.2	9.6	4.7
Lebanon	554	6.3	45.2	6.3	45.6	2.9	5.9	6.7
Lithuania	630	8.8	75.2	8.8	16.0	0.0	6.4	11.0
Malaysia	1398	7.9	77.7	7.9	14.3	0.0	7.3	8.5
Malta	548	6.9	70.0	6.9	23.1	0.0	5.5	8.2
Morocco	1854	13.1	54.5	13.1	31.8	0.5	15.8	11.0
New Zealand	1142	20.5	67.2	20.5	11.8	0.5	20.0	21.0
Norway	669	24.3	57.7	24.3	17.3	0.6	21.4	27.5
Oman	1243	11.8	71.0	11.8	17.0	0.2	14.3	9.4
Qatar	778	13.9	63.7	13.9	21.7	0.8	18.7	8.6
Russian Federation	683	19.5	57.6	19.5	22.3	0.5	22.4	16.6
Saudi Arabia	522	7.9	67.7	7.9	24.2	0.2	12.0	3.4
Singapore	866	25.8	69.5	25.8	4.6	0.1	27.3	24.6
Slovenia	604	10.3	74.2	10.3	15.3	0.3	11.6	9.2
South Africa	1779	2.8	86.4	2.8	10.3	0.5	3.0	2.6
Sweden	587	22.4	61.2	22.4	16.0	0.4	19.1	25.5
Thailand	939	2.4	71.2	2.4	26.2	0.1	1.8	3.1
Turkey	880	12.8	68.7	12.8	18.5	0.0	13.1	12.5
United Arab Emirates	2557	8.7	75.9	8.7	15.1	0.3	9.9	7.5
United States	1463	15.8	78.5	15.8	5.2	0.5	13.5	18.0
International Avg (n=39)	35922	13.4	66.8	13.4	19.4	0.4	13.2	13.5
Buenos Aires, Argentina	478	4.6	38.5	4.6	52.5	4.4	4.6	4.7
Ontario, Canada	643	23.7	66.2	23.7	10.0	0.1	24.1	23.5
Quebec, Canada	569	12.3	75.5	12.3	11.6	0.6	11.3	13.5
Norway (8)	684	21.0	56.3	21.0	22.7	0.0	21.3	20.7
Abu Dhabi, UAE	677	8.2	78.1	8.2	13.3	0.5	9.7	6.8
Dubai, UAE	883	12.6	74.2	12.6	13.1	0.1	14.3	10.8
Florida, US	297	8.8	83.5	8.8	7.3	0.4	9.1	8.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_10 (S062276): Chemistry / Applying Type: CR 1 Point
Label: Iron object changes color

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	16.0	82.5	16.0	1.4	0.2	14.4	17.7
Bahrain	705	38.9	57.2	38.9	3.5	0.4	47.9	31.0
Botswana	849	11.9	85.7	11.9	2.2	0.2	15.0	8.7
Canada	1252	37.3	59.0	37.3	3.4	0.3	35.8	39.2
Chile	683	11.1	83.1	11.1	4.2	1.6	8.9	13.1
Chinese Taipei	810	52.2	47.6	52.2	0.1	0.0	49.7	54.6
Egypt	1097	10.7	85.3	10.7	3.2	0.8	12.9	8.2
England	684	33.8	63.2	33.8	2.5	0.5	37.7	30.2
Georgia	574	19.4	77.4	19.4	2.9	0.3	15.5	22.7
Hong Kong SAR	588	24.3	74.4	24.3	1.2	0.0	22.9	25.6
Hungary	706	39.2	59.9	39.2	0.8	0.2	38.1	40.2
Iran, Islamic Rep. of	883	45.0	53.2	45.0	1.1	0.7	47.8	42.4
Ireland	676	20.4	78.3	20.4	1.0	0.3	17.6	23.5
Israel	783	29.0	66.6	29.0	3.0	1.4	30.5	27.6
Italy	622	13.7	79.1	13.7	7.2	0.0	14.5	12.8
Japan	684	50.8	48.5	50.8	0.6	0.2	53.4	48.1
Jordan	1122	26.0	70.4	26.0	2.8	0.7	34.9	17.4
Kazakhstan	698	57.4	41.7	57.4	0.8	0.1	59.7	55.2
Korea, Rep. of	762	25.3	73.0	25.3	1.7	0.0	21.5	28.9
Kuwait	600	31.6	65.2	31.6	1.8	1.4	37.2	25.8
Lebanon	554	32.5	56.4	32.5	8.0	3.1	37.3	27.0
Lithuania	630	32.8	66.4	32.8	0.8	0.0	38.3	27.8
Malaysia	1398	42.9	53.0	42.9	4.0	0.1	45.9	40.1
Malta	548	37.3	61.1	37.3	1.6	0.0	41.2	33.4
Morocco	1853	7.0	88.5	7.0	4.0	0.6	8.1	6.0
New Zealand	1142	32.2	64.7	32.2	2.4	0.6	34.1	30.2
Norway	669	22.8	74.7	22.8	1.8	0.6	17.8	28.2
Oman	1246	21.9	75.4	21.9	2.2	0.5	28.9	15.0
Qatar	778	27.9	67.9	27.9	3.4	0.8	35.1	20.1
Russian Federation	683	42.0	55.1	42.0	2.4	0.5	46.0	38.0
Saudi Arabia	520	23.5	74.2	23.5	2.1	0.2	30.2	16.2
Singapore	866	39.3	60.0	39.3	0.7	0.1	39.3	39.4
Slovenia	604	40.5	58.2	40.5	1.0	0.3	40.4	40.5
South Africa	1779	16.5	82.0	16.5	0.7	0.8	20.9	11.6
Sweden	586	21.5	75.6	21.5	2.3	0.6	19.6	23.3
Thailand	939	21.5	70.5	21.5	7.9	0.1	23.7	19.0
Turkey	880	34.2	65.0	34.2	0.8	0.0	37.6	31.1
United Arab Emirates	2557	36.7	61.2	36.7	1.7	0.4	44.9	28.6
United States	1463	41.6	56.4	41.6	1.5	0.5	41.1	42.0
International Avg (n=39)	35918	30.0	67.1	30.0	2.4	0.5	32.0	28.0
Buenos Aires, Argentina	477	8.8	74.5	8.8	11.2	5.5	10.9	6.9
Ontario, Canada	643	32.0	62.5	32.0	5.4	0.1	31.0	33.1
Quebec, Canada	569	48.4	50.5	48.4	0.5	0.6	46.9	50.2
Norway (8)	684	24.8	70.7	24.8	4.5	0.0	23.4	26.4
Abu Dhabi, UAE	677	30.4	67.3	30.4	1.9	0.5	40.7	21.2
Dubai, UAE	883	47.6	50.5	47.6	1.7	0.2	53.6	41.1
Florida, US	297	35.5	61.8	35.5	2.3	0.4	30.0	40.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_11 (S062050): Chemistry / Reasoning Type: CR 1 Point
Label: Cabbage juice pH indicators

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	27.0	67.3	27.0	5.5	0.2	31.8	21.6
Bahrain	705	25.5	70.3	25.5	3.6	0.5	33.2	18.8
Botswana	849	15.1	81.4	15.1	3.3	0.2	18.9	11.0
Canada	1252	31.6	59.8	31.6	8.2	0.4	37.4	25.3
Chile	683	11.9	74.6	11.9	11.9	1.6	13.5	10.5
Chinese Taipei	810	40.8	58.6	40.8	0.6	0.0	47.3	34.8
Egypt	1097	3.6	92.5	3.6	3.2	0.8	5.0	2.0
England	684	40.8	55.5	40.8	3.2	0.5	45.1	36.8
Georgia	573	16.7	75.0	16.7	7.9	0.3	13.6	19.4
Hong Kong SAR	588	37.7	61.3	37.7	0.9	0.1	46.0	30.4
Hungary	706	28.0	70.2	28.0	1.6	0.2	28.9	27.1
Iran, Islamic Rep. of	883	14.4	77.6	14.4	7.4	0.7	17.5	11.5
Ireland	676	41.5	56.1	41.5	2.1	0.3	46.8	35.6
Israel	783	34.0	59.7	34.0	4.9	1.4	39.2	29.2
Italy	623	19.3	65.3	19.3	15.4	0.0	20.9	17.4
Japan	684	49.2	48.2	49.2	2.4	0.2	55.9	42.4
Jordan	1122	13.2	83.0	13.2	3.0	0.7	17.3	9.3
Kazakhstan	698	36.8	61.7	36.8	1.3	0.1	37.2	36.4
Korea, Rep. of	762	48.6	50.0	48.6	1.5	0.0	53.8	43.7
Kuwait	600	13.8	80.6	13.8	4.2	1.4	15.6	11.9
Lebanon	554	15.8	70.5	15.8	10.3	3.4	21.6	9.2
Lithuania	630	23.2	74.6	23.2	2.3	0.0	29.6	17.3
Malaysia	1398	13.7	80.0	13.7	6.2	0.1	16.7	11.0
Malta	548	22.3	72.8	22.3	5.0	0.0	32.1	12.8
Morocco	1858	7.6	85.3	7.6	6.5	0.6	10.0	5.7
New Zealand	1142	36.8	58.4	36.8	4.2	0.6	41.0	32.2
Norway	669	23.0	70.6	23.0	5.8	0.6	28.6	17.0
Oman	1246	15.0	82.2	15.0	2.3	0.5	21.0	9.1
Qatar	778	20.6	73.7	20.6	4.9	0.8	26.5	14.4
Russian Federation	683	37.7	57.7	37.7	3.9	0.7	42.8	32.7
Saudi Arabia	522	11.3	85.0	11.3	3.5	0.2	13.6	8.7
Singapore	866	59.2	39.8	59.2	1.0	0.1	65.2	54.1
Slovenia	605	27.0	70.6	27.0	2.2	0.3	32.9	21.9
South Africa	1779	16.4	80.5	16.4	2.3	0.9	20.3	12.0
Sweden	586	21.9	73.1	21.9	4.3	0.7	27.4	17.4
Thailand	939	14.5	76.8	14.5	8.6	0.1	17.8	10.6
Turkey	880	17.7	78.9	17.7	3.4	0.0	25.2	11.0
United Arab Emirates	2557	26.5	69.9	26.5	3.1	0.5	36.0	17.3
United States	1463	39.1	57.9	39.1	2.4	0.6	43.9	34.4
International Avg (n=39)	35926	25.6	69.4	25.6	4.5	0.5	30.2	21.1
Buenos Aires, Argentina	478	6.1	57.2	6.1	30.9	5.8	7.6	4.3
Ontario, Canada	643	33.8	56.0	33.8	9.8	0.4	40.5	27.3
Quebec, Canada	569	27.8	67.3	27.8	4.3	0.6	32.1	22.6
Norway (8)	684	20.8	73.4	20.8	5.7	0.0	24.6	16.7
Abu Dhabi, UAE	677	20.2	76.9	20.2	2.4	0.5	30.7	10.8
Dubai, UAE	883	43.4	52.3	43.4	4.1	0.2	54.1	31.9
Florida, US	297	32.3	64.0	32.3	3.2	0.5	32.1	32.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S04_12 (S062205): Earth Science / Knowing Type: MC Key: A
Label: Gases in Earth's atmosphere

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	17.6	17.6	48.9	3.2	25.7	4.2	0.4	15.4	20.1
Bahrain	705	51.6	51.6	25.2	7.0	14.8	0.8	0.7	53.8	49.6
Botswana	852	20.7	20.7	37.1	14.3	25.5	1.6	0.9	19.9	21.6
Canada	1233	20.6	20.6	53.5	6.7	18.1	0.7	0.4	15.5	26.2
Chile	683	20.2	20.2	54.3	3.4	18.5	1.8	1.8	15.6	24.4
Chinese Taipei	810	72.0	72.0	15.3	3.3	9.2	0.2	0.0	70.7	73.2
Egypt	1097	30.1	30.1	34.6	10.8	21.7	1.7	1.0	30.4	29.7
England	684	30.8	30.8	38.3	3.6	18.3	8.6	0.5	30.3	31.2
Georgia	574	43.3	43.3	42.4	3.2	9.5	1.1	0.5	43.5	43.1
Hong Kong SAR	588	52.9	52.9	28.5	4.3	13.8	0.5	0.1	47.9	57.3
Hungary	706	39.3	39.3	42.1	3.5	13.7	1.2	0.2	33.8	44.8
Iran, Islamic Rep. of	883	34.7	34.7	21.3	17.3	24.4	1.4	0.9	31.0	38.1
Ireland	676	45.6	45.6	30.9	1.3	13.9	8.0	0.3	42.5	49.0
Israel	783	38.0	38.0	28.3	5.8	24.3	2.0	1.6	38.0	37.9
Italy	623	36.7	36.7	48.9	3.5	8.8	2.1	0.0	32.0	42.2
Japan	684	75.5	75.5	12.6	4.4	7.1	0.2	0.2	74.3	76.7
Jordan	1122	41.9	41.9	32.9	8.3	14.4	1.8	0.7	43.3	40.5
Kazakhstan	698	69.5	69.5	22.7	1.4	5.9	0.3	0.1	67.5	71.4
Korea, Rep. of	762	69.9	69.9	19.4	2.9	7.6	0.2	0.0	64.6	74.8
Kuwait	599	33.9	33.9	35.8	8.9	17.7	2.1	1.5	33.9	33.9
Lebanon	532	35.1	35.1	37.6	7.2	12.5	5.3	2.3	35.6	34.6
Lithuania	630	40.8	40.8	38.5	0.4	15.3	5.0	0.0	39.7	41.9
Malaysia	1398	44.9	44.9	33.0	5.5	15.6	0.5	0.5	43.7	46.0
Malta	548	22.0	22.0	49.9	2.7	20.5	5.0	0.0	21.9	22.0
Morocco	1857	44.4	44.4	32.3	7.9	12.5	2.0	0.9	44.9	43.9
New Zealand	1142	21.0	21.0	42.6	4.9	24.3	6.5	0.7	19.3	22.9
Norway	669	27.5	27.5	37.1	4.0	28.5	2.2	0.6	26.5	28.6
Oman	1246	31.8	31.8	35.0	12.8	18.2	1.7	0.5	32.5	31.1
Qatar	778	43.6	43.6	36.2	3.8	14.3	1.4	0.8	43.8	43.2
Russian Federation	683	51.0	51.0	32.6	1.3	13.4	1.0	0.7	54.0	48.1
Saudi Arabia	521	19.0	19.0	47.5	11.5	21.0	0.6	0.2	21.0	17.0
Singapore	866	59.2	59.2	20.5	3.7	15.8	0.6	0.1	57.9	60.2
Slovenia	605	60.5	60.5	18.8	1.2	18.1	1.1	0.3	52.6	67.2
South Africa	1779	10.3	10.3	51.5	16.1	19.0	1.8	1.2	10.2	10.5
Sweden	587	31.0	31.0	29.7	4.8	29.4	3.4	1.7	32.7	29.2
Thailand	939	28.5	28.5	49.8	4.5	16.5	0.6	0.1	28.1	28.8
Turkey	880	23.9	23.9	58.6	7.0	10.1	0.3	0.1	21.7	25.8
United Arab Emirates	2556	44.3	44.3	29.2	6.0	18.0	2.0	0.5	43.3	45.4
United States	1463	30.1	30.1	41.7	2.5	23.0	1.8	0.9	28.0	32.0
International Avg (n=39)	35886	38.8	38.8	35.8	5.8	16.9	2.1	0.6	37.5	40.1
Buenos Aires, Argentina	473	20.0	20.0	45.1	3.7	16.9	8.7	5.6	19.0	20.5
Ontario, Canada	631	15.2	15.2	50.9	7.7	24.7	1.1	0.4	9.2	21.3
Quebec, Canada	562	32.2	32.2	58.0	1.4	7.8	0.0	0.6	27.9	37.2
Norway (8)	684	27.3	27.3	42.4	4.3	24.6	1.4	0.0	22.4	32.7
Abu Dhabi, UAE	676	35.6	35.6	32.1	7.4	22.8	1.7	0.5	36.1	35.1
Dubai, UAE	883	54.0	54.0	27.7	3.9	12.1	2.1	0.2	51.9	56.3
Florida, US	297	24.8	24.8	43.9	4.4	24.4	1.8	0.7	19.4	30.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_13 (S062190): Earth Science / Applying Type: MC Key: D
Label: Disadvantage of solar energy

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	76.7	6.0	10.7	4.2	76.7	1.5	0.8	77.9	75.3
Bahrain	705	47.3	17.3	18.5	14.8	47.3	1.4	0.7	43.6	50.5
Botswana	852	52.0	12.0	23.1	10.9	52.0	0.6	1.4	52.3	51.6
Canada	1244	75.7	3.2	15.8	4.0	75.7	0.4	0.9	69.7	82.1
Chile	683	54.3	6.5	22.8	12.7	54.3	1.0	2.7	50.1	58.1
Chinese Taipei	810	82.9	2.4	12.0	2.4	82.9	0.0	0.2	79.9	85.6
Egypt	1097	35.7	27.7	14.9	17.6	35.7	2.5	1.6	35.5	35.8
England	684	69.4	4.0	17.9	5.3	69.4	2.9	0.5	66.6	72.0
Georgia	574	47.1	13.7	20.6	14.8	47.1	3.0	0.8	45.0	49.0
Hong Kong SAR	588	85.9	2.5	9.6	1.1	85.9	0.8	0.1	84.0	87.6
Hungary	706	71.3	9.1	10.8	8.3	71.3	0.4	0.2	69.8	72.8
Iran, Islamic Rep. of	883	33.3	15.2	28.7	18.6	33.3	3.2	0.9	28.6	37.7
Ireland	676	73.6	3.9	16.9	3.7	73.6	1.4	0.5	72.6	74.7
Israel	783	51.0	6.8	27.3	10.6	51.0	2.4	1.9	47.4	54.1
Italy	623	62.6	6.8	18.7	10.3	62.6	1.7	0.0	57.1	68.9
Japan	684	87.1	2.3	6.0	3.5	87.1	1.0	0.2	85.9	88.3
Jordan	1122	42.7	21.4	21.1	11.7	42.7	1.9	1.2	41.8	43.7
Kazakhstan	698	55.9	13.3	15.9	13.6	55.9	1.0	0.3	58.1	53.8
Korea, Rep. of	762	59.4	2.6	29.8	7.9	59.4	0.2	0.1	53.4	65.0
Kuwait	599	36.4	25.5	18.4	16.7	36.4	1.3	1.8	38.8	33.9
Lebanon	528	25.2	25.9	20.7	19.7	25.2	5.6	2.8	25.7	24.7
Lithuania	540	68.2	7.3	11.6	10.7	68.2	1.9	0.2	70.2	66.4
Malaysia	1398	46.3	11.1	29.5	11.5	46.3	1.2	0.5	43.9	48.4
Malta	548	62.4	9.3	18.7	7.0	62.4	1.8	0.7	60.6	64.1
Morocco	1857	36.4	20.8	16.2	21.9	36.4	3.6	1.1	37.8	35.4
New Zealand	1142	72.9	6.2	12.5	5.1	72.9	1.8	1.6	72.3	73.4
Norway	669	70.4	8.1	11.4	7.0	70.4	2.5	0.6	66.8	74.2
Oman	1246	39.7	20.8	21.7	15.2	39.7	1.3	1.3	40.4	39.0
Qatar	778	42.7	13.0	27.8	13.5	42.7	2.1	0.9	41.6	43.8
Russian Federation	683	66.5	5.2	16.9	8.9	66.5	1.7	0.8	65.0	67.9
Saudi Arabia	521	34.2	19.0	28.3	17.3	34.2	0.9	0.2	35.9	32.5
Singapore	866	78.9	2.4	14.7	3.2	78.9	0.7	0.1	73.9	83.1
Slovenia	605	69.1	3.0	16.7	7.3	69.1	3.6	0.3	63.6	73.9
South Africa	1779	36.0	21.7	19.9	19.5	36.0	1.0	1.9	34.1	38.0
Sweden	587	69.8	7.2	12.1	8.6	69.8	0.6	1.7	66.3	73.0
Thailand	939	44.9	11.4	29.9	12.0	44.9	1.3	0.5	43.7	46.2
Turkey	880	30.6	17.6	30.2	20.9	30.6	0.4	0.2	29.4	31.7
United Arab Emirates	2557	54.4	10.3	22.0	10.8	54.4	2.0	0.5	53.3	55.6
United States	1463	76.9	4.3	11.3	5.6	76.9	0.9	0.9	75.4	78.4
International Avg (n=39)	35804	57.1	10.9	18.8	10.7	57.1	1.6	0.9	55.3	58.7
Buenos Aires, Argentina	471	43.9	15.2	13.4	14.5	43.9	7.0	6.1	42.3	45.9
Ontario, Canada	641	79.6	2.7	11.9	4.0	79.6	0.7	1.2	75.8	83.3
Quebec, Canada	563	68.0	3.3	23.1	5.0	68.0	0.0	0.6	60.5	76.8
Norway (8)	684	61.6	12.9	14.2	8.9	61.6	2.1	0.3	55.9	67.9
Abu Dhabi, UAE	677	50.1	12.5	22.2	13.4	50.1	1.2	0.6	55.5	45.3
Dubai, UAE	883	62.8	5.2	24.5	5.8	62.8	1.6	0.2	58.3	67.6
Florida, US	297	70.4	9.4	13.2	5.1	70.4	0.6	1.4	61.5	79.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_14A (S062024A): Earth Science / Knowing Type: MC Key: A
Label: Forming layered rock

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	63.0	63.0	9.7	6.6	17.3	2.6	0.8	60.3	66.2
Bahrain	705	58.9	58.9	9.3	11.3	19.2	0.5	0.8	64.4	54.0
Botswana	852	15.6	15.6	38.9	14.6	27.7	1.7	1.4	16.3	14.8
Canada	1249	53.8	53.8	13.0	7.7	21.6	2.8	1.1	53.4	54.5
Chile	683	39.4	39.4	19.7	10.3	22.5	5.4	2.7	35.8	42.7
Chinese Taipei	810	62.1	62.1	13.6	4.8	19.3	0.1	0.2	67.5	57.1
Egypt	1097	38.3	38.3	20.9	19.2	18.4	1.4	1.7	38.2	38.4
England	684	70.8	70.8	5.5	3.6	18.1	1.1	0.9	76.3	65.8
Georgia	574	20.2	20.2	22.4	18.7	34.7	3.1	0.9	21.6	19.0
Hong Kong SAR	588	42.7	42.7	21.9	7.0	28.0	0.3	0.1	45.2	40.5
Hungary	706	58.7	58.7	16.5	3.8	19.4	1.5	0.2	58.1	59.3
Iran, Islamic Rep. of	883	70.1	70.1	9.5	8.3	9.6	1.5	1.0	74.1	66.5
Ireland	676	62.4	62.4	11.2	6.7	17.5	1.5	0.7	61.3	63.6
Israel	782	29.1	29.1	23.3	12.9	28.5	3.9	2.2	28.0	30.1
Italy	623	48.9	48.9	14.1	7.7	24.6	4.1	0.7	45.8	52.5
Japan	684	56.6	56.6	13.5	13.4	15.5	0.8	0.2	58.6	54.6
Jordan	1122	45.0	45.0	14.0	10.0	27.8	2.1	1.2	45.6	44.5
Kazakhstan	698	39.4	39.4	20.8	7.7	28.7	2.9	0.5	36.5	42.2
Korea, Rep. of	762	79.6	79.6	11.2	2.1	6.2	0.5	0.3	79.9	79.4
Kuwait	600	50.8	50.8	18.3	9.7	14.0	5.3	1.8	57.3	44.0
Lebanon	525	33.8	33.8	19.0	18.7	15.1	9.9	3.6	32.7	35.0
Lithuania	630	53.6	53.6	7.2	6.3	29.9	2.7	0.3	55.3	51.9
Malaysia	1398	35.7	35.7	15.9	16.8	27.7	2.9	1.0	38.3	33.4
Malta	548	54.8	54.8	5.1	15.5	21.3	2.6	0.7	56.5	53.2
Morocco	1859	35.5	35.5	13.4	10.9	35.2	3.8	1.3	33.3	37.2
New Zealand	1142	42.9	42.9	21.6	10.3	20.1	3.4	1.6	41.5	44.4
Norway	669	32.1	32.1	24.8	10.9	26.7	4.4	1.1	29.1	35.3
Oman	1246	52.2	52.2	6.5	5.8	32.2	2.0	1.3	55.7	48.7
Qatar	778	50.4	50.4	12.3	12.0	21.6	2.6	1.1	55.2	45.3
Russian Federation	683	40.5	40.5	16.3	14.8	18.2	9.0	1.1	43.2	37.8
Saudi Arabia	522	43.4	43.4	23.3	15.1	17.0	1.0	0.2	46.8	39.7
Singapore	866	53.8	53.8	11.7	7.1	26.5	0.7	0.2	48.9	58.0
Slovenia	605	50.6	50.6	10.9	8.2	26.6	3.2	0.4	48.0	52.9
South Africa	1779	31.0	31.0	20.5	24.1	19.9	2.3	2.2	32.1	29.7
Sweden	587	39.2	39.2	27.2	16.2	11.4	4.1	2.0	31.0	46.7
Thailand	939	72.9	72.9	6.4	3.8	15.0	0.8	1.0	78.7	66.3
Turkey	880	42.7	42.7	29.6	13.6	11.7	2.1	0.2	44.8	40.8
United Arab Emirates	2557	53.0	53.0	12.4	11.2	20.7	2.1	0.7	52.9	53.1
United States	1463	65.3	65.3	10.0	4.6	18.1	1.0	0.9	65.3	65.4
International Avg (n=39)	35899	48.4	48.4	15.9	10.6	21.4	2.7	1.0	49.1	47.8
Buenos Aires, Argentina	471	25.2	25.2	16.9	10.5	27.6	12.9	7.0	26.4	24.0
Ontario, Canada	641	47.5	47.5	14.1	9.9	23.0	4.0	1.5	47.3	48.1
Quebec, Canada	568	66.5	66.5	10.8	3.2	17.5	1.4	0.6	64.3	69.1
Norway (8)	684	30.1	30.1	25.1	15.1	25.9	3.3	0.5	28.0	32.4
Abu Dhabi, UAE	677	46.0	46.0	14.1	13.1	24.0	2.3	0.6	45.1	46.7
Dubai, UAE	883	58.0	58.0	11.3	8.9	19.7	1.8	0.3	60.2	55.6
Florida, US	297	68.4	68.4	3.5	6.3	20.2	0.0	1.6	70.1	66.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S04_14B (S062024B): Earth Science / Applying Type: CR 1 Point
Label: Shaping rock formations

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1445	23.0	59.8	23.0	15.7	1.4	21.2	25.1
Bahrain	705	20.2	57.9	20.2	20.9	1.0	20.9	19.7
Botswana	852	2.1	71.3	2.1	24.6	2.0	2.0	2.2
Canada	1252	20.7	64.3	20.7	13.3	1.7	20.0	21.4
Chile	683	10.8	49.7	10.8	35.9	3.6	7.7	13.6
Chinese Taipei	810	29.3	54.8	29.3	15.7	0.2	30.8	27.9
Egypt	1097	6.9	87.8	6.9	3.3	2.1	6.5	7.4
England	684	31.5	49.2	31.5	18.1	1.2	36.9	26.4
Georgia	574	9.7	36.9	9.7	51.6	1.8	4.9	13.9
Hong Kong SAR	588	21.1	57.6	21.1	21.2	0.1	20.1	22.0
Hungary	706	32.9	33.6	32.9	33.1	0.4	30.8	35.1
Iran, Islamic Rep. of	883	6.1	65.1	6.1	27.8	1.1	6.3	5.8
Ireland	676	37.0	44.6	37.0	17.3	1.1	36.2	37.9
Israel	783	11.7	52.2	11.7	32.7	3.3	10.7	12.6
Italy	622	10.8	47.0	10.8	39.8	2.3	7.9	14.2
Japan	684	39.1	47.1	39.1	13.6	0.3	38.9	39.3
Jordan	1122	6.7	70.1	6.7	21.1	2.0	10.0	3.5
Kazakhstan	698	20.6	52.6	20.6	25.1	1.7	22.5	18.7
Korea, Rep. of	762	42.4	47.0	42.4	10.1	0.4	42.7	42.1
Kuwait	600	8.3	84.1	8.3	5.7	1.9	8.8	7.8
Lebanon	554	5.0	35.8	5.0	52.7	6.5	4.7	5.3
Lithuania	630	20.5	50.7	20.5	27.3	1.4	18.4	22.5
Malaysia	1398	10.7	63.3	10.7	24.0	2.0	9.4	11.8
Malta	548	30.2	41.7	30.2	26.4	1.7	32.9	27.5
Morocco	1859	4.6	58.6	4.6	34.8	2.1	3.6	5.3
New Zealand	1142	20.9	58.2	20.9	18.1	2.8	21.7	20.1
Norway	669	17.5	56.1	17.5	23.9	2.4	15.5	19.7
Oman	1246	17.6	61.7	17.6	19.2	1.6	21.8	13.4
Qatar	778	10.3	63.6	10.3	24.6	1.6	10.1	10.4
Russian Federation	683	23.9	36.8	23.9	34.7	4.6	27.3	20.6
Saudi Arabia	522	3.3	55.6	3.3	40.9	0.2	3.7	2.8
Singapore	866	17.4	68.8	17.4	13.6	0.2	15.5	19.1
Slovenia	605	20.6	50.2	20.6	28.0	1.2	19.8	21.2
South Africa	1779	8.5	63.1	8.5	26.0	2.5	8.3	8.8
Sweden	587	27.7	42.0	27.7	27.1	3.2	23.7	31.3
Thailand	939	17.1	66.3	17.1	15.4	1.3	18.0	16.1
Turkey	880	12.8	62.0	12.8	24.4	0.7	15.0	10.9
United Arab Emirates	2557	10.6	68.7	10.6	19.5	1.2	12.2	9.0
United States	1463	28.9	62.2	28.9	7.6	1.2	29.5	28.4
International Avg (n=39)	35931	17.9	56.4	17.9	24.0	1.7	17.9	18.0
Buenos Aires, Argentina	473	4.3	31.2	4.3	53.7	10.7	4.8	3.9
Ontario, Canada	643	24.9	57.5	24.9	15.2	2.4	24.3	25.6
Quebec, Canada	569	12.4	75.3	12.4	11.5	0.8	12.2	12.5
Norway (8)	684	17.4	55.1	17.4	26.0	1.5	17.6	17.1
Abu Dhabi, UAE	677	8.6	68.7	8.6	21.4	1.2	8.5	8.8
Dubai, UAE	883	16.4	67.5	16.4	14.8	1.2	20.8	11.7
Florida, US	297	27.2	63.5	27.2	7.8	1.6	22.2	32.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_01 (S042053): Biology / Applying Type: MC Key: C
Label: Vaccinate people against influenza

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	65.0	12.7	9.6	65.0	11.4	1.2	0.1	64.3	65.8
Bahrain	705	70.0	5.8	6.1	70.0	17.4	0.7	0.0	76.4	64.0
Botswana	840	48.1	9.4	9.8	48.1	31.9	0.8	0.0	52.8	43.0
Canada	1260	74.1	8.9	5.6	74.1	10.0	1.2	0.2	74.3	73.8
Chile	673	63.2	11.1	4.3	63.2	19.8	1.6	0.0	59.4	67.3
Chinese Taipei	805	94.9	2.5	1.8	94.9	0.8	0.0	0.0	95.1	94.7
Egypt	1103	35.3	10.6	14.4	35.3	36.7	3.0	0.1	32.0	38.9
England	694	79.3	5.4	6.5	79.3	8.2	0.4	0.2	80.2	78.3
Georgia	575	60.9	9.5	19.3	60.9	8.7	1.4	0.3	58.4	63.2
Hong Kong SAR	588	93.0	0.9	3.5	93.0	2.0	0.6	0.0	93.4	92.7
Hungary	705	84.7	4.1	3.7	84.7	6.8	0.5	0.2	85.2	84.2
Iran, Islamic Rep. of	884	72.0	2.4	9.0	72.0	15.8	0.8	0.0	70.4	73.6
Ireland	673	72.6	10.1	5.8	72.6	10.6	0.8	0.0	76.4	68.9
Israel	782	79.8	2.9	8.6	79.8	6.7	1.8	0.3	81.2	78.2
Italy	627	93.5	1.3	1.4	93.5	2.8	1.0	0.0	92.2	94.7
Japan	673	83.5	4.2	6.6	83.5	5.4	0.2	0.2	81.3	86.1
Jordan	1120	50.0	13.1	18.0	50.0	16.9	1.9	0.0	53.7	46.3
Kazakhstan	688	67.6	10.6	11.7	67.6	9.1	1.0	0.0	66.5	68.7
Korea, Rep. of	760	84.7	3.4	3.1	84.7	8.6	0.3	0.0	82.4	86.9
Kuwait	607	48.7	15.3	12.7	48.7	19.1	4.2	0.0	52.5	44.9
Lebanon	552	58.8	4.8	9.4	58.8	18.6	8.4	0.0	58.8	58.8
Lithuania	628	64.0	13.0	14.8	64.0	7.7	0.4	0.0	60.9	67.2
Malaysia	1377	58.5	16.4	14.7	58.5	9.3	1.1	0.0	59.8	57.3
Malta	548	60.8	9.5	9.3	60.8	18.1	2.2	0.0	63.2	58.5
Morocco	1871	53.0	6.8	15.4	53.0	22.5	2.3	0.0	51.5	54.2
New Zealand	1124	60.0	12.6	11.4	60.0	15.1	0.9	0.0	62.9	56.9
Norway	663	88.0	3.4	5.4	88.0	2.0	0.9	0.1	88.3	87.7
Oman	1264	46.1	12.6	13.1	46.1	25.1	3.1	0.0	47.6	44.7
Qatar	767	63.0	7.3	12.5	63.0	15.1	2.1	0.0	64.0	62.0
Russian Federation	681	80.4	3.5	4.4	80.4	11.2	0.5	0.0	81.2	79.6
Saudi Arabia	523	53.2	9.6	13.5	53.2	22.3	1.2	0.2	61.3	44.7
Singapore	872	76.9	6.3	7.3	76.9	8.9	0.4	0.2	77.4	76.4
Slovenia	603	73.2	3.3	15.3	73.2	6.7	1.5	0.0	73.6	72.8
South Africa	1785	23.6	17.0	23.5	23.6	33.4	2.4	0.1	24.7	22.6
Sweden	594	82.8	8.3	1.9	82.8	4.7	1.8	0.5	85.6	80.7
Thailand	927	87.5	1.8	5.7	87.5	4.3	0.6	0.0	90.1	84.4
Turkey	880	54.1	12.5	23.5	54.1	8.5	1.2	0.1	53.7	54.5
United Arab Emirates	2572	58.5	11.0	11.4	58.5	17.2	2.0	0.0	61.1	55.9
United States	1477	73.0	7.8	6.3	73.0	11.8	1.0	0.0	72.0	74.0
International Avg (n=39)	35921	67.6	8.0	9.7	67.6	13.1	1.5	0.1	68.4	66.9
Buenos Aires, Argentina	451	58.5	4.6	5.0	58.5	23.7	7.6	0.7	55.4	61.7
Ontario, Canada	649	70.6	10.0	6.7	70.6	11.0	1.4	0.4	70.7	70.5
Quebec, Canada	573	84.1	5.4	4.3	84.1	5.0	1.1	0.0	83.3	85.1
Norway (8)	685	82.7	3.6	7.6	82.7	4.0	2.0	0.1	84.5	80.7
Abu Dhabi, UAE	687	53.1	12.2	14.8	53.1	17.4	2.5	0.0	59.5	47.1
Dubai, UAE	884	72.6	8.2	7.5	72.6	11.2	0.5	0.0	75.8	69.3
Florida, US	296	70.4	7.8	7.6	70.4	13.1	1.2	0.0	69.9	70.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S05_02 (S042408): Biology / Applying Type: CR 1 Point
Label: Birds can't survive without plants

COUNTRY	N	10 %	11 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	24.4	6.1	15.6	45.7	30.6	8.1	0.1	29.5	31.7
Bahrain	705	27.5	8.1	26.4	28.0	35.7	9.9	0.0	36.4	34.9
Botswana	840	8.3	4.1	15.5	64.8	12.3	7.2	0.1	10.7	14.1
Canada	1260	37.3	5.4	16.2	33.0	42.7	7.9	0.2	40.7	44.8
Chile	673	10.9	6.6	8.0	50.5	17.5	24.0	0.0	16.0	19.1
Chinese Taipei	805	45.8	2.1	1.4	44.3	47.9	6.4	0.0	45.9	49.8
Egypt	1103	17.3	1.0	13.7	51.0	18.3	17.0	0.1	16.6	20.1
England	694	41.3	6.3	16.3	30.5	47.6	5.4	0.2	44.4	51.0
Georgia	575	21.3	8.4	16.8	29.6	29.7	23.5	0.3	31.1	28.5
Hong Kong SAR	588	35.2	1.8	3.6	51.9	37.0	7.5	0.0	31.9	41.5
Hungary	705	30.4	2.1	3.7	52.5	32.5	11.1	0.2	34.5	30.3
Iran, Islamic Rep. of	884	36.2	5.3	13.1	32.2	41.6	13.1	0.0	37.7	45.2
Ireland	673	28.6	7.1	17.2	39.9	35.7	7.2	0.0	33.2	38.1
Israel	782	37.7	2.6	13.1	32.1	40.4	14.1	0.3	41.8	38.9
Italy	626	11.9	7.8	5.2	54.7	19.7	20.3	0.0	18.9	20.5
Japan	673	36.2	5.4	15.7	35.2	41.6	7.3	0.2	36.4	47.5
Jordan	1120	26.7	3.7	7.5	49.3	30.4	12.8	0.0	33.8	26.9
Kazakhstan	688	45.9	8.2	3.7	35.0	54.1	7.3	0.0	53.9	54.3
Korea, Rep. of	760	67.2	2.2	3.0	25.5	69.3	2.1	0.0	66.8	71.6
Kuwait	608	19.8	5.3	20.1	34.3	25.0	20.3	0.2	28.2	21.8
Lebanon	552	12.6	1.3	0.6	49.6	13.9	35.9	0.0	14.8	12.8
Lithuania	628	38.9	1.9	13.6	33.0	40.8	12.7	0.0	39.2	42.5
Malaysia	1377	17.6	4.1	7.5	60.6	21.7	10.1	0.0	22.1	21.4
Malta	548	31.7	1.1	16.4	40.4	32.8	10.4	0.0	29.6	35.9
Morocco	1871	25.8	5.3	15.0	35.4	31.1	18.4	0.1	27.4	34.1
New Zealand	1124	33.2	6.8	15.8	38.1	40.0	6.1	0.0	37.2	42.9
Norway	663	35.6	6.0	15.0	35.2	41.6	8.1	0.1	38.5	44.9
Oman	1263	28.3	6.8	17.1	37.0	35.1	10.9	0.0	39.0	31.3
Qatar	767	26.5	4.6	15.4	42.6	31.2	10.8	0.0	28.9	33.6
Russian Federation	681	49.6	0.8	4.2	35.8	50.4	9.5	0.0	56.3	45.0
Saudi Arabia	522	19.0	2.8	28.9	35.0	21.9	14.1	0.2	23.0	20.7
Singapore	872	46.4	6.0	8.8	35.6	52.4	3.0	0.2	52.8	52.1
Slovenia	603	33.5	2.4	22.8	31.1	36.0	10.1	0.0	39.2	32.7
South Africa	1785	9.4	8.1	14.6	61.6	17.5	6.3	0.1	20.1	14.9
Sweden	594	32.9	6.9	12.7	36.8	39.8	10.3	0.5	42.0	38.1
Thailand	927	16.6	0.1	9.8	59.2	16.7	14.3	0.0	18.9	14.0
Turkey	880	37.9	6.9	11.0	36.6	44.8	7.5	0.1	43.6	45.9
United Arab Emirates	2573	28.8	4.4	21.3	37.3	33.2	8.2	0.0	34.6	31.8
United States	1477	45.0	5.7	16.2	30.2	50.7	2.9	0.0	49.8	51.5
International Avg (n=39)	35920	30.2	4.7	12.9	40.8	34.9	11.3	0.1	34.5	35.3
Buenos Aires, Argentina	451	13.5	7.9	5.5	34.6	21.4	37.8	0.7	24.9	18.1
Ontario, Canada	649	41.5	5.6	15.1	31.8	47.1	5.7	0.4	46.2	47.9
Quebec, Canada	573	28.9	2.9	18.8	37.2	31.8	12.3	0.0	26.2	38.2
Norway (8)	685	30.8	9.1	17.6	33.4	39.9	8.9	0.1	36.6	43.5
Abu Dhabi, UAE	687	25.8	4.7	22.5	38.9	30.5	8.0	0.0	30.7	30.3
Dubai, UAE	884	39.4	4.6	17.2	32.2	44.0	6.6	0.0	46.2	41.6
Florida, US	296	41.7	6.3	16.0	32.6	48.0	3.4	0.0	41.1	54.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_03 (S042015): Biology / Knowing Type: MC Key: D
Label: Function of the cell membrane

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	52.5	11.4	21.3	13.4	52.5	1.3	0.1	54.9	50.1
Bahrain	706	54.3	20.0	11.2	12.9	54.3	1.6	0.0	57.7	51.1
Botswana	840	61.8	13.3	10.6	13.1	61.8	1.0	0.1	66.5	56.7
Canada	1260	65.9	9.0	14.9	8.7	65.9	1.3	0.2	70.5	61.4
Chile	673	31.7	22.5	31.4	11.6	31.7	2.7	0.0	37.8	25.4
Chinese Taipei	805	74.7	6.3	14.5	4.3	74.7	0.2	0.0	74.0	75.4
Egypt	1103	33.6	29.2	18.2	16.5	33.6	2.5	0.1	33.7	33.5
England	694	53.8	13.6	21.8	9.9	53.8	0.7	0.2	54.2	53.4
Georgia	575	43.3	24.9	22.5	6.1	43.3	3.0	0.3	45.6	41.2
Hong Kong SAR	588	53.4	15.8	18.0	12.4	53.4	0.4	0.0	48.2	58.1
Hungary	705	45.3	17.4	17.1	18.0	45.3	2.1	0.2	44.8	45.9
Iran, Islamic Rep. of	884	62.3	14.7	13.2	8.0	62.3	1.8	0.0	65.6	59.3
Ireland	673	49.8	21.1	16.5	11.8	49.8	0.8	0.0	53.8	45.8
Israel	782	61.5	12.7	14.3	8.5	61.5	2.6	0.3	62.7	60.3
Italy	627	41.8	29.0	15.6	9.9	41.8	3.7	0.0	41.5	42.1
Japan	673	44.1	27.6	10.1	17.7	44.1	0.3	0.2	43.0	45.3
Jordan	1120	33.0	24.6	23.1	17.0	33.0	2.3	0.0	35.5	30.5
Kazakhstan	687	55.1	7.7	19.6	16.2	55.1	1.4	0.0	59.6	50.5
Korea, Rep. of	760	63.6	19.2	6.8	10.2	63.6	0.2	0.0	63.1	64.0
Kuwait	608	32.1	38.1	13.6	12.6	32.1	3.5	0.2	35.4	28.8
Lebanon	552	39.8	15.7	19.3	15.7	39.8	8.9	0.6	42.3	36.9
Lithuania	628	54.9	19.9	12.0	12.1	54.9	1.2	0.0	56.6	53.1
Malaysia	1377	49.2	11.8	23.1	15.2	49.2	0.7	0.0	52.9	45.6
Malta	548	54.7	16.2	17.2	10.1	54.7	1.7	0.0	60.1	49.5
Morocco	1871	19.8	29.4	28.6	18.8	19.8	3.2	0.2	22.3	17.7
New Zealand	1124	49.8	15.6	20.9	12.6	49.8	1.1	0.0	54.3	45.3
Norway	663	54.5	6.8	27.5	9.8	54.5	1.3	0.1	53.6	55.4
Oman	1264	53.4	20.6	12.4	12.0	53.4	1.6	0.0	60.0	47.1
Qatar	767	62.2	16.8	9.3	9.8	62.2	1.5	0.4	67.3	56.9
Russian Federation	681	50.6	9.2	11.1	26.0	50.6	3.0	0.0	48.7	52.4
Saudi Arabia	523	28.6	41.1	18.3	10.9	28.6	0.9	0.2	30.9	26.2
Singapore	873	84.2	5.4	2.9	7.0	84.2	0.3	0.2	86.3	82.4
Slovenia	603	68.2	13.9	9.8	7.2	68.2	0.9	0.0	73.2	63.1
South Africa	1785	45.8	24.6	19.3	8.5	45.8	1.8	0.1	48.1	43.4
Sweden	594	28.1	38.2	19.8	11.1	28.1	2.4	0.5	28.3	27.9
Thailand	927	56.3	9.7	21.0	12.0	56.3	1.0	0.0	63.7	47.4
Turkey	880	45.5	16.9	16.6	20.7	45.5	0.2	0.1	51.5	40.1
United Arab Emirates	2573	53.2	21.6	12.2	11.2	53.2	1.9	0.0	56.5	50.0
United States	1477	53.0	14.1	19.5	12.4	53.0	1.0	0.0	50.8	54.9
International Avg (n=39)	35924	50.4	18.6	16.8	12.4	50.4	1.7	0.1	52.7	48.0
Buenos Aires, Argentina	451	35.8	16.9	26.0	8.3	35.8	11.9	1.1	35.3	36.1
Ontario, Canada	649	66.8	8.3	13.7	10.1	66.8	0.8	0.4	73.1	60.9
Quebec, Canada	573	65.9	8.8	17.0	5.9	65.9	2.4	0.0	68.1	63.3
Norway (8)	685	54.6	8.5	23.0	11.1	54.6	2.7	0.1	55.4	53.6
Abu Dhabi, UAE	687	51.2	21.8	13.1	11.3	51.2	2.6	0.0	54.5	48.0
Dubai, UAE	884	64.4	15.1	10.1	9.6	64.4	0.7	0.0	69.3	59.4
Florida, US	296	48.1	15.1	23.8	12.7	48.1	0.3	0.0	45.3	50.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S05_04 (S042309): Biology / Applying Type: MC Key: D
Label: Giraffes with short and long necks

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	51.5	21.1	15.6	10.2	51.5	1.5	0.1	53.1	49.9
Bahrain	706	46.8	16.8	19.6	14.8	46.8	2.0	0.0	53.3	40.7
Botswana	840	34.1	39.9	12.3	10.8	34.1	2.8	0.2	35.5	32.4
Canada	1259	50.9	28.2	11.1	7.8	50.9	1.8	0.3	52.5	49.2
Chile	673	37.5	45.8	8.5	6.4	37.5	1.9	0.0	38.9	36.0
Chinese Taipei	805	58.5	34.3	3.6	3.6	58.5	0.0	0.0	56.8	60.2
Egypt	1103	37.4	18.9	23.5	16.8	37.4	3.2	0.1	40.5	34.0
England	694	53.7	20.3	11.0	13.9	53.7	0.9	0.2	54.1	53.2
Georgia	575	39.9	30.6	18.3	7.6	39.9	2.9	0.7	39.0	40.8
Hong Kong SAR	588	37.9	45.9	11.4	4.4	37.9	0.4	0.0	40.7	35.4
Hungary	705	68.3	13.1	15.2	3.1	68.3	0.1	0.2	68.0	68.7
Iran, Islamic Rep. of	884	55.7	17.8	15.5	9.6	55.7	1.4	0.1	61.7	50.1
Ireland	673	48.0	22.5	16.7	11.6	48.0	1.3	0.0	49.9	46.1
Israel	782	52.5	19.6	14.2	11.0	52.5	2.4	0.3	55.6	49.3
Italy	627	50.7	37.8	7.3	3.6	50.7	0.7	0.0	49.2	52.0
Japan	673	26.2	68.9	2.9	1.7	26.2	0.2	0.2	29.2	22.8
Jordan	1120	47.0	16.9	21.0	12.8	47.0	2.4	0.0	51.5	42.4
Kazakhstan	688	57.7	27.7	5.9	7.5	57.7	1.1	0.1	58.3	57.1
Korea, Rep. of	760	35.1	55.6	4.8	4.6	35.1	0.0	0.0	38.3	32.2
Kuwait	608	34.4	25.6	19.7	16.0	34.4	4.0	0.2	38.8	30.0
Lebanon	548	29.6	17.4	19.9	17.1	29.6	15.4	0.6	31.2	27.9
Lithuania	628	50.5	38.9	6.7	3.6	50.5	0.3	0.0	51.2	49.7
Malaysia	1377	57.6	19.6	14.1	7.8	57.6	0.9	0.0	61.5	53.9
Malta	548	39.8	30.7	14.3	11.9	39.8	3.3	0.0	42.5	37.1
Morocco	1871	47.6	15.7	18.1	15.4	47.6	3.0	0.3	51.0	44.8
New Zealand	1124	49.1	25.4	14.0	9.7	49.1	1.8	0.0	51.8	46.5
Norway	663	50.1	21.8	18.7	7.7	50.1	1.7	0.1	53.0	46.9
Oman	1264	44.5	19.6	16.7	16.0	44.5	3.1	0.0	51.2	38.1
Qatar	766	42.7	19.4	16.7	18.3	42.7	2.4	0.5	42.2	43.2
Russian Federation	681	51.4	37.5	5.8	3.8	51.4	1.3	0.1	53.4	49.6
Saudi Arabia	524	44.2	14.6	22.1	17.4	44.2	1.4	0.2	54.1	33.8
Singapore	873	47.3	32.4	10.4	9.3	47.3	0.4	0.2	49.5	45.4
Slovenia	603	57.1	31.0	7.9	2.9	57.1	1.0	0.0	57.7	56.5
South Africa	1785	34.0	33.0	15.7	14.6	34.0	2.4	0.3	37.6	30.5
Sweden	594	43.0	30.4	17.3	7.3	43.0	1.6	0.5	44.6	41.8
Thailand	927	32.5	35.7	16.7	13.4	32.5	1.7	0.0	34.4	30.1
Turkey	880	40.6	42.4	7.1	9.0	40.6	0.9	0.1	40.2	41.0
United Arab Emirates	2573	46.9	20.8	15.8	14.7	46.9	1.8	0.0	50.8	43.0
United States	1477	54.1	24.6	11.1	8.9	54.1	1.1	0.1	58.1	50.5
International Avg (n=39)	35920	45.8	28.7	13.5	9.9	45.8	2.0	0.1	48.2	43.4
Buenos Aires, Argentina	451	34.7	33.4	12.7	6.8	34.7	10.9	1.4	36.4	32.8
Ontario, Canada	649	50.3	21.7	15.3	10.4	50.3	2.1	0.4	53.1	47.6
Quebec, Canada	572	48.6	43.9	3.6	3.1	48.6	0.6	0.2	49.3	47.8
Norway (8)	685	51.4	19.6	19.1	8.7	51.4	0.9	0.3	51.5	51.3
Abu Dhabi, UAE	687	45.3	21.7	18.0	12.6	45.3	2.3	0.1	50.4	40.6
Dubai, UAE	884	48.9	21.1	12.6	15.5	48.9	2.0	0.0	49.9	47.9
Florida, US	296	52.6	30.6	9.6	5.8	52.6	1.4	0.0	62.7	42.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S05_05A (S042049A): Biology / Applying Type: CR 1 Point
Label: Population of rabbits and lynxes

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	78.8	17.0	78.8	4.1	0.1	82.6	74.7
Bahrain	706	64.0	26.8	64.0	9.1	0.0	72.8	55.9
Botswana	840	51.7	44.0	51.7	3.9	0.3	56.0	47.0
Canada	1260	82.2	13.9	82.2	3.6	0.3	88.4	76.0
Chile	673	69.5	16.9	69.5	13.4	0.1	69.3	69.8
Chinese Taipei	805	72.6	20.3	72.6	7.1	0.0	72.8	72.4
Egypt	1103	27.5	50.5	27.5	21.9	0.1	26.8	28.2
England	694	89.7	8.8	89.7	1.4	0.2	92.6	86.5
Georgia	575	57.4	19.4	57.4	22.5	0.7	56.5	58.1
Hong Kong SAR	588	86.1	11.8	86.1	2.1	0.0	87.2	85.2
Hungary	705	82.2	11.5	82.2	6.2	0.2	84.0	80.4
Iran, Islamic Rep. of	884	48.8	26.8	48.8	24.3	0.1	50.2	47.5
Ireland	673	89.8	7.6	89.8	2.7	0.0	91.4	88.2
Israel	782	80.8	10.2	80.8	8.7	0.3	83.8	77.6
Italy	627	71.6	13.1	71.6	15.3	0.0	71.8	71.5
Japan	673	91.9	5.3	91.9	2.6	0.2	92.5	91.3
Jordan	1120	52.4	37.3	52.4	10.3	0.0	62.0	42.5
Kazakhstan	688	60.1	22.1	60.1	17.7	0.1	64.9	55.2
Korea, Rep. of	760	91.4	5.1	91.4	3.6	0.0	93.6	89.4
Kuwait	608	48.0	32.2	48.0	19.6	0.2	57.7	38.2
Lebanon	552	25.6	49.5	25.6	24.4	0.6	30.2	20.2
Lithuania	628	77.2	14.8	77.2	8.0	0.0	81.7	72.6
Malaysia	1377	63.3	27.2	63.3	9.5	0.0	69.3	57.6
Malta	548	73.0	22.4	73.0	4.6	0.0	79.1	66.9
Morocco	1870	46.2	35.3	46.2	18.3	0.3	46.1	46.3
New Zealand	1124	81.9	14.6	81.9	3.5	0.0	85.0	78.7
Norway	663	71.8	19.9	71.8	8.2	0.1	74.6	68.8
Oman	1263	54.4	36.1	54.4	9.6	0.0	59.2	49.7
Qatar	767	67.3	26.3	67.3	5.8	0.6	72.6	61.7
Russian Federation	680	73.4	12.6	73.4	13.9	0.1	80.5	66.7
Saudi Arabia	524	38.9	42.7	38.9	18.2	0.2	46.6	30.8
Singapore	873	93.1	5.8	93.1	0.9	0.2	93.0	93.1
Slovenia	603	87.9	9.2	87.9	2.9	0.0	90.7	84.9
South Africa	1785	42.8	51.3	42.8	5.5	0.4	45.4	40.4
Sweden	593	77.1	13.4	77.1	9.0	0.5	81.1	73.9
Thailand	927	49.2	31.8	49.2	18.9	0.1	54.6	42.5
Turkey	880	74.5	18.7	74.5	6.6	0.1	80.1	69.5
United Arab Emirates	2572	68.5	25.4	68.5	6.1	0.0	74.8	62.4
United States	1477	81.6	16.6	81.6	1.6	0.2	87.2	76.4
International Avg (n=39)	35921	67.8	22.4	67.8	9.6	0.2	71.5	64.1
Buenos Aires, Argentina	450	37.0	22.6	37.0	39.0	1.4	41.3	33.0
Ontario, Canada	649	83.3	13.5	83.3	2.9	0.4	89.5	77.6
Quebec, Canada	573	81.3	13.7	81.3	4.8	0.2	86.1	75.7
Norway (8)	685	69.3	19.9	69.3	10.5	0.3	73.0	65.3
Abu Dhabi, UAE	687	65.7	26.7	65.7	7.5	0.1	72.1	59.9
Dubai, UAE	884	78.9	17.5	78.9	3.5	0.1	82.8	74.9
Florida, US	296	78.5	19.3	78.5	2.2	0.0	84.9	72.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_05B (S042049B): Biology / Reasoning Type: CR 1 Point
Label: Number of lynxes in 1996 vs 2004

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	58.0	31.6	58.0	10.2	0.1	55.5	60.7
Bahrain	706	32.5	49.9	32.5	17.6	0.0	37.1	28.2
Botswana	840	10.8	78.7	10.8	10.1	0.4	8.9	12.9
Canada	1260	73.3	18.0	73.3	8.3	0.4	73.0	73.6
Chile	673	39.6	36.6	39.6	23.6	0.2	33.4	46.0
Chinese Taipei	805	71.6	18.1	71.6	10.3	0.0	69.9	73.3
Egypt	1103	6.1	62.8	6.1	30.9	0.3	6.3	5.8
England	694	66.0	27.6	66.0	6.3	0.2	64.7	67.4
Georgia	575	43.6	18.7	43.6	36.4	1.3	32.7	53.5
Hong Kong SAR	588	67.6	23.0	67.6	9.4	0.0	67.9	67.4
Hungary	705	70.1	15.1	70.1	14.5	0.3	66.8	73.7
Iran, Islamic Rep. of	884	34.6	28.4	34.6	36.7	0.2	32.9	36.3
Ireland	673	69.7	23.1	69.7	7.2	0.0	68.3	71.1
Israel	782	42.0	38.4	42.0	19.2	0.4	38.5	45.6
Italy	627	47.0	20.4	47.0	32.6	0.0	41.8	51.9
Japan	673	39.7	50.1	39.7	9.7	0.4	39.5	40.1
Jordan	1120	20.0	57.9	20.0	22.2	0.0	21.9	18.0
Kazakhstan	688	30.6	32.0	30.6	37.2	0.2	32.3	28.8
Korea, Rep. of	760	70.1	20.2	70.1	9.7	0.0	69.5	70.6
Kuwait	608	15.7	55.0	15.7	28.8	0.5	17.5	14.0
Lebanon	552	5.6	53.1	5.6	40.2	1.1	4.7	6.6
Lithuania	628	66.2	15.3	66.2	18.4	0.0	64.9	67.6
Malaysia	1377	34.3	48.0	34.3	17.6	0.2	32.9	35.5
Malta	548	49.7	32.7	49.7	17.6	0.0	53.4	46.2
Morocco	1868	15.3	46.3	15.3	38.0	0.4	13.9	16.5
New Zealand	1124	60.0	30.9	60.0	9.1	0.1	59.1	60.8
Norway	663	47.8	28.0	47.8	24.1	0.1	48.8	46.7
Oman	1261	34.3	48.0	34.3	17.6	0.1	40.6	28.1
Qatar	767	30.7	55.1	30.7	13.2	1.0	33.0	28.4
Russian Federation	680	55.5	14.0	55.5	29.8	0.7	58.5	52.7
Saudi Arabia	523	13.5	54.5	13.5	31.8	0.2	15.4	11.4
Singapore	873	77.7	19.4	77.7	2.7	0.2	74.7	80.2
Slovenia	603	64.6	25.6	64.6	9.8	0.0	67.5	61.6
South Africa	1785	14.6	71.6	14.6	13.0	0.8	14.2	15.0
Sweden	593	66.0	19.1	66.0	14.4	0.5	69.6	63.1
Thailand	927	24.1	51.0	24.1	24.5	0.4	27.2	20.4
Turkey	880	49.6	37.2	49.6	12.9	0.3	52.1	47.2
United Arab Emirates	2573	32.6	52.7	32.6	14.7	0.1	33.8	31.4
United States	1477	72.5	23.7	72.5	3.5	0.2	73.3	71.8
International Avg (n=39)	35917	44.2	36.7	44.2	18.8	0.3	44.0	44.4
Buenos Aires, Argentina	451	20.2	21.1	20.2	57.3	1.4	22.3	18.2
Ontario, Canada	649	75.7	16.1	75.7	7.8	0.4	75.8	75.5
Quebec, Canada	573	70.8	19.3	70.8	9.2	0.7	68.3	73.6
Norway (8)	685	42.7	35.4	42.7	21.6	0.3	43.3	42.1
Abu Dhabi, UAE	687	27.5	55.8	27.5	16.6	0.1	29.7	25.5
Dubai, UAE	884	49.7	40.6	49.7	9.6	0.1	49.3	50.0
Florida, US	296	68.8	25.8	68.8	5.4	0.0	65.8	71.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_06 (S042182): Physics / Knowing Type: MC Key: C
Label: Type of energy compressed spring

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	82.8	7.9	7.3	82.8	1.1	0.8	0.2	80.0	85.8
Bahrain	706	60.0	15.9	15.2	60.0	7.8	1.0	0.0	63.0	57.2
Botswana	835	49.7	16.9	23.0	49.7	7.6	1.9	0.9	49.6	49.9
Canada	1258	71.9	16.0	7.9	71.9	2.7	0.7	0.8	68.3	75.4
Chile	673	77.5	9.4	6.6	77.5	3.5	2.6	0.2	72.1	83.1
Chinese Taipei	805	68.1	9.3	9.8	68.1	12.6	0.3	0.0	61.9	74.2
Egypt	1103	51.2	18.5	17.5	51.2	9.8	2.8	0.3	47.0	55.7
England	694	72.3	14.3	10.6	72.3	2.2	0.5	0.2	67.7	77.2
Georgia	575	73.3	7.9	10.0	73.3	5.6	1.9	1.3	71.6	74.7
Hong Kong SAR	588	83.0	3.2	1.6	83.0	12.0	0.2	0.0	80.8	85.0
Hungary	705	89.5	2.8	4.5	89.5	2.8	0.2	0.3	87.6	91.5
Iran, Islamic Rep. of	884	80.2	4.3	9.5	80.2	5.6	0.1	0.4	78.1	82.2
Ireland	673	76.5	11.7	9.9	76.5	1.0	0.9	0.0	73.0	80.0
Israel	782	62.0	10.7	5.1	62.0	19.9	1.9	0.4	56.7	67.6
Italy	627	90.0	3.9	1.9	90.0	4.2	0.0	0.0	87.5	92.4
Japan	673	49.1	23.3	13.6	49.1	13.5	0.1	0.4	45.2	53.6
Jordan	1120	57.1	16.0	14.3	57.1	10.5	2.1	0.0	59.6	54.5
Kazakhstan	688	81.9	4.9	10.3	81.9	1.1	1.5	0.2	84.0	79.7
Korea, Rep. of	760	82.7	7.3	1.7	82.7	8.0	0.3	0.0	84.4	81.2
Kuwait	608	51.9	19.7	17.5	51.9	8.5	1.8	0.5	55.9	47.9
Lebanon	552	61.8	16.7	9.6	61.8	5.4	5.4	1.1	62.4	61.2
Lithuania	628	89.5	5.2	1.3	89.5	3.8	0.2	0.0	86.6	92.5
Malaysia	1377	85.4	6.2	3.7	85.4	3.9	0.6	0.2	88.5	82.5
Malta	548	67.5	20.2	6.8	67.5	3.7	1.6	0.2	67.5	67.5
Morocco	1849	56.0	14.1	16.3	56.0	10.6	2.6	0.5	54.6	57.1
New Zealand	1124	76.0	9.1	10.9	76.0	3.3	0.5	0.1	71.9	80.2
Norway	663	60.8	11.7	17.7	60.8	6.3	3.2	0.2	52.4	69.8
Oman	1264	34.7	40.0	11.6	34.7	12.0	1.6	0.1	36.8	32.6
Qatar	767	52.8	17.1	18.3	52.8	8.5	2.4	1.0	52.6	52.9
Russian Federation	681	85.3	6.9	4.5	85.3	1.8	0.8	0.7	82.2	88.2
Saudi Arabia	524	42.4	19.3	21.8	42.4	15.5	0.9	0.2	43.1	41.6
Singapore	873	90.0	5.6	2.0	90.0	2.2	0.0	0.2	90.2	89.9
Slovenia	603	79.3	12.8	3.4	79.3	3.0	1.7	0.0	79.0	79.5
South Africa	1785	47.4	21.7	17.6	47.4	9.4	2.6	1.3	46.6	48.2
Sweden	593	40.8	36.8	12.4	40.8	7.8	1.7	0.5	38.3	43.1
Thailand	927	65.5	10.6	14.1	65.5	8.2	1.1	0.4	67.9	62.7
Turkey	880	69.6	12.6	7.4	69.6	9.8	0.2	0.3	71.1	68.3
United Arab Emirates	2573	59.6	19.7	14.1	59.6	4.8	1.8	0.1	56.9	62.2
United States	1477	82.2	7.9	7.3	82.2	1.6	0.7	0.3	79.3	84.9
International Avg (n=39)	35896	68.1	13.3	10.2	68.1	6.7	1.3	0.3	66.7	69.6
Buenos Aires, Argentina	451	68.2	8.9	4.5	68.2	6.0	10.9	1.4	63.7	72.4
Ontario, Canada	648	73.4	17.3	5.8	73.4	2.4	0.5	0.6	69.3	77.2
Quebec, Canada	572	71.4	11.5	11.2	71.4	3.2	1.3	1.4	66.9	76.4
Norway (8)	685	58.1	10.6	14.0	58.1	10.9	6.2	0.3	48.9	68.2
Abu Dhabi, UAE	687	57.9	20.5	14.0	57.9	5.1	2.3	0.2	54.5	61.0
Dubai, UAE	884	71.4	12.0	12.3	71.4	3.1	1.0	0.1	69.0	74.0
Florida, US	296	86.7	7.5	4.9	86.7	0.9	0.0	0.0	87.0	86.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S05_07 (S042402): Physics / Applying Type: CR 1 Point
Label: Heat flow in metal cubes

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	12.2	57.8	29.2	12.2	0.6	0.2	10.4	14.2
Bahrain	706	26.3	35.9	36.3	26.3	1.4	0.1	33.9	19.2
Botswana	835	8.0	50.7	38.2	8.0	1.9	1.2	9.1	6.7
Canada	1260	15.0	56.1	26.0	15.0	1.9	1.0	13.8	16.2
Chile	673	18.6	42.7	32.9	18.6	5.0	0.8	17.9	19.4
Chinese Taipei	805	54.2	23.9	21.5	54.2	0.4	0.0	53.1	55.4
Egypt	1103	10.9	39.4	46.0	10.9	3.3	0.3	10.7	11.2
England	694	24.1	51.7	22.3	24.1	1.8	0.2	25.6	22.4
Georgia	575	17.6	45.0	30.1	17.6	5.7	1.6	15.9	19.1
Hong Kong SAR	588	25.0	43.3	30.8	25.0	0.9	0.0	23.4	26.4
Hungary	704	25.3	45.9	26.2	25.3	2.3	0.3	20.1	31.0
Iran, Islamic Rep. of	884	12.6	53.0	31.1	12.6	2.8	0.4	13.0	12.2
Ireland	673	8.3	67.8	22.5	8.3	1.4	0.0	6.3	10.2
Israel	782	29.6	37.8	29.6	29.6	2.4	0.5	31.4	27.6
Italy	627	17.2	49.4	28.6	17.2	4.8	0.0	14.6	19.6
Japan	673	21.9	31.4	45.1	21.9	1.2	0.4	20.2	23.8
Jordan	1120	14.8	15.0	66.4	14.8	3.7	0.0	17.5	12.0
Kazakhstan	688	42.9	22.6	32.7	42.9	1.6	0.2	45.8	39.8
Korea, Rep. of	760	46.0	23.7	29.3	46.0	1.0	0.0	46.0	46.1
Kuwait	608	10.9	41.0	43.9	10.9	3.7	0.5	13.8	7.9
Lebanon	552	10.3	49.9	32.0	10.3	6.7	1.1	10.8	9.7
Lithuania	628	18.9	49.6	30.6	18.9	0.9	0.0	19.5	18.3
Malaysia	1377	8.1	47.0	39.2	8.1	5.4	0.3	9.0	7.3
Malta	548	9.0	45.3	43.4	9.0	2.2	0.2	9.4	8.5
Morocco	1849	8.4	52.6	35.3	8.4	3.2	0.5	9.8	7.2
New Zealand	1124	12.8	58.8	27.2	12.8	1.0	0.2	13.3	12.2
Norway	663	19.0	52.1	26.4	19.0	2.3	0.2	21.5	16.3
Oman	1264	25.7	43.1	28.4	25.7	2.6	0.2	32.1	19.5
Qatar	766	21.2	30.4	45.9	21.2	1.3	1.2	21.7	20.6
Russian Federation	681	45.1	18.6	34.3	45.1	1.4	0.7	51.2	39.3
Saudi Arabia	524	15.9	51.5	30.2	15.9	2.2	0.2	22.3	9.2
Singapore	873	54.5	25.2	19.8	54.5	0.3	0.2	57.1	52.3
Slovenia	603	26.9	9.9	62.5	26.9	0.8	0.0	27.4	26.3
South Africa	1785	3.5	47.0	45.8	3.5	2.2	1.5	4.0	3.1
Sweden	592	14.0	63.0	20.9	14.0	1.6	0.5	12.7	15.2
Thailand	927	18.6	45.0	28.1	18.6	7.7	0.7	21.1	15.6
Turkey	880	50.7	18.9	28.0	50.7	2.0	0.3	58.5	43.7
United Arab Emirates	2573	17.1	42.6	38.1	17.1	2.1	0.2	17.9	16.3
United States	1477	21.5	52.5	24.7	21.5	1.1	0.3	20.5	22.5
International Avg (n=39)	35895	21.6	42.0	33.6	21.6	2.4	0.4	22.6	20.6
Buenos Aires, Argentina	451	6.5	45.1	31.5	6.5	15.4	1.4	8.2	4.9
Ontario, Canada	649	15.7	55.5	26.3	15.7	1.7	0.8	12.6	18.5
Quebec, Canada	573	15.4	54.9	26.7	15.4	1.6	1.4	16.7	13.9
Norway (8)	685	13.2	57.7	26.3	13.2	2.5	0.3	12.7	13.8
Abu Dhabi, UAE	687	13.4	43.2	40.4	13.4	2.8	0.2	12.9	13.8
Dubai, UAE	884	25.5	41.6	31.6	25.5	1.2	0.1	27.2	23.7
Florida, US	296	31.4	38.9	28.5	31.4	1.2	0.0	28.2	34.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_08A (S042228A): Chemistry / Reasoning Type: CR 1 Point
Label: Volume of the neck chain

COUNTRY	N	10 %	11 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	11.8	0.9	63.1	12.7	24.1	0.2	11.8	13.7
Bahrain	706	8.8	10.4	59.4	19.2	21.3	0.1	26.5	12.4
Botswana	835	2.1	0.6	76.8	2.7	19.3	1.2	2.9	2.5
Canada	1260	18.2	3.8	56.1	21.9	21.0	1.0	23.1	20.7
Chile	673	3.1	0.2	52.5	3.3	43.4	0.8	3.8	2.8
Chinese Taipei	805	15.0	11.4	52.4	26.4	21.2	0.0	27.9	25.0
Egypt	1103	2.8	0.3	66.8	3.0	29.6	0.5	2.8	3.3
England	694	12.3	3.5	60.2	15.8	23.8	0.2	15.0	16.7
Georgia	575	6.5	3.6	33.9	10.1	54.0	2.0	7.0	13.0
Hong Kong SAR	588	18.8	19.9	43.5	38.8	17.8	0.0	38.8	38.7
Hungary	704	11.4	5.1	40.5	16.5	42.7	0.3	16.9	16.2
Iran, Islamic Rep. of	884	14.4	0.8	45.0	15.3	39.2	0.5	16.7	14.0
Ireland	673	22.7	5.3	47.7	28.0	24.3	0.1	26.5	29.4
Israel	782	18.7	4.3	44.0	23.0	32.3	0.7	25.1	20.8
Italy	627	13.1	0.4	47.8	13.5	38.5	0.1	11.5	15.3
Japan	673	41.5	4.1	48.2	45.7	5.5	0.6	45.3	46.0
Jordan	1120	3.0	1.1	66.0	4.1	29.8	0.2	5.0	3.1
Kazakhstan	688	25.1	0.8	40.1	26.0	33.7	0.2	29.4	22.3
Korea, Rep. of	760	21.7	2.9	64.1	24.7	11.3	0.0	28.0	21.7
Kuwait	608	3.5	0.1	56.7	3.6	39.0	0.6	2.5	4.8
Lebanon	552	6.5	1.0	36.6	7.5	54.2	1.7	9.4	5.3
Lithuania	628	22.2	1.8	41.0	23.9	35.1	0.0	24.2	23.7
Malaysia	1377	2.5	1.5	71.6	4.0	23.7	0.6	5.3	2.8
Malta	548	23.8	2.0	47.8	25.8	26.1	0.4	27.1	24.5
Morocco	1871	1.7	0.4	51.1	2.1	46.1	0.6	2.2	2.1
New Zealand	1124	15.2	2.2	60.4	17.4	21.8	0.4	14.8	20.0
Norway	663	19.3	2.0	41.7	21.3	36.7	0.2	21.6	21.1
Oman	1259	7.0	2.4	63.5	9.4	26.9	0.2	13.7	5.2
Qatar	767	6.0	2.2	53.0	8.2	37.6	1.2	9.4	7.0
Russian Federation	681	20.7	10.0	23.8	30.7	44.7	0.8	32.1	29.4
Saudi Arabia	524	3.5	0.7	64.4	4.2	31.2	0.2	5.5	2.7
Singapore	873	39.2	5.9	46.9	45.0	7.9	0.2	52.4	38.8
Slovenia	603	27.6	1.3	43.7	28.9	27.4	0.0	31.0	26.8
South Africa	1785	0.8	1.1	76.0	2.0	20.5	1.6	2.3	1.6
Sweden	594	25.5	1.2	36.9	26.7	35.7	0.6	25.0	28.4
Thailand	927	0.8	3.6	54.7	4.3	40.3	0.7	4.8	3.7
Turkey	880	18.3	5.6	52.1	23.9	23.5	0.5	28.8	19.4
United Arab Emirates	2573	6.4	2.3	66.5	8.7	24.7	0.2	9.5	7.9
United States	1477	27.6	0.6	61.3	28.2	10.2	0.4	28.7	27.5
International Avg (n=39)	35915	14.1	3.3	52.8	17.3	29.4	0.5	18.3	16.4
Buenos Aires, Argentina	451	1.5	0.4	29.9	1.9	66.5	1.7	2.0	1.9
Ontario, Canada	649	17.4	4.0	58.2	21.4	19.6	0.8	23.9	19.0
Quebec, Canada	573	20.8	2.3	53.7	23.1	21.7	1.5	21.7	24.7
Norway (8)	685	12.6	0.9	49.1	13.6	37.0	0.3	13.9	13.2
Abu Dhabi, UAE	687	6.6	1.3	70.0	7.9	21.9	0.2	8.5	7.2
Dubai, UAE	884	10.2	5.0	62.9	15.3	21.7	0.1	16.6	13.8
Florida, US	296	23.7	0.6	63.9	24.4	11.7	0.0	21.9	26.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_08B (S042228B): Chemistry / Reasoning Type: CR 1 Point
Label: Complete table 3 with percent gold

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	63.9	15.9	63.9	19.5	0.7	67.0	60.7
Bahrain	705	44.1	36.5	44.1	19.0	0.4	54.3	34.7
Botswana	835	32.9	42.4	32.9	22.1	2.6	35.8	29.6
Canada	1260	63.8	13.8	63.8	19.9	2.5	64.6	62.9
Chile	673	47.5	13.8	47.5	37.7	1.0	47.6	47.3
Chinese Taipei	805	73.8	10.1	73.8	16.1	0.0	76.8	70.8
Egypt	1103	16.4	55.7	16.4	26.9	0.9	16.7	16.1
England	694	72.7	13.1	72.7	13.9	0.3	75.1	70.0
Georgia	575	18.9	14.3	18.9	64.8	2.0	16.2	21.3
Hong Kong SAR	588	70.8	16.6	70.8	12.6	0.0	74.1	68.0
Hungary	704	70.9	13.6	70.9	15.2	0.3	73.2	68.4
Iran, Islamic Rep. of	884	38.5	25.0	38.5	35.5	1.1	43.0	34.2
Ireland	673	69.8	17.7	69.8	12.4	0.1	74.7	65.0
Israel	782	52.4	20.0	52.4	26.4	1.1	51.3	53.6
Italy	627	60.8	11.4	60.8	27.5	0.2	58.5	63.0
Japan	673	80.6	8.8	80.6	10.0	0.6	84.2	76.6
Jordan	1120	26.2	46.4	26.2	26.3	1.1	30.6	21.6
Kazakhstan	688	52.4	20.3	52.4	26.9	0.4	54.8	49.9
Korea, Rep. of	760	77.7	10.1	77.7	11.9	0.2	81.2	74.6
Kuwait	607	23.1	42.2	23.1	33.8	1.0	24.9	21.2
Lebanon	552	26.0	15.6	26.0	55.7	2.7	28.3	23.4
Lithuania	628	64.5	12.8	64.5	22.3	0.3	65.9	63.1
Malaysia	1377	58.3	26.6	58.3	14.1	1.0	64.9	52.1
Malta	548	57.7	20.3	57.7	21.6	0.4	57.8	57.7
Morocco	1870	15.7	41.1	15.7	42.2	1.1	16.4	15.1
New Zealand	1124	66.1	16.4	66.1	16.8	0.8	64.6	67.6
Norway	663	64.5	7.2	64.5	28.0	0.3	68.5	60.1
Oman	1263	32.6	48.3	32.6	18.7	0.3	39.4	26.0
Qatar	767	43.1	33.6	43.1	21.5	1.8	44.7	41.5
Russian Federation	681	64.9	6.8	64.9	27.4	0.9	66.5	63.4
Saudi Arabia	524	20.4	52.8	20.4	26.6	0.2	25.8	14.8
Singapore	873	82.8	12.6	82.8	4.2	0.4	84.7	81.2
Slovenia	603	73.4	10.6	73.4	16.0	0.0	75.8	70.9
South Africa	1785	28.5	52.8	28.5	16.2	2.5	33.2	23.9
Sweden	594	51.9	15.8	51.9	30.8	1.5	50.4	53.2
Thailand	927	38.6	19.1	38.6	41.6	0.7	44.9	31.0
Turkey	880	49.6	28.8	49.6	20.7	0.9	57.5	42.4
United Arab Emirates	2573	50.3	31.0	50.3	18.2	0.4	58.3	42.5
United States	1477	65.8	20.1	65.8	13.1	1.0	68.6	63.2
International Avg (n=39)	35916	51.6	23.6	51.6	24.0	0.9	54.4	48.8
Buenos Aires, Argentina	451	13.5	12.8	13.5	69.5	4.2	16.5	10.6
Ontario, Canada	649	62.0	16.1	62.0	19.3	2.6	62.6	61.4
Quebec, Canada	573	65.7	10.2	65.7	22.2	1.8	67.5	63.6
Norway (8)	685	52.4	11.6	52.4	35.5	0.6	54.2	50.4
Abu Dhabi, UAE	687	45.9	34.0	45.9	19.7	0.5	56.4	36.1
Dubai, UAE	884	65.6	21.3	65.6	12.8	0.3	69.1	62.0
Florida, US	296	61.1	22.6	61.1	16.0	0.4	62.6	59.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_08C (S042228C): Chemistry / Applying Type: CR 1 Point
Label: Neck chain with most gold

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	48.4	33.5	48.4	17.3	0.8	50.0	46.7
Bahrain	704	18.5	65.6	18.5	15.5	0.4	24.1	13.4
Botswana	835	10.6	75.2	10.6	9.7	4.4	10.2	11.0
Canada	1260	56.0	23.5	56.0	17.3	3.2	57.9	54.2
Chile	673	7.1	48.7	7.1	42.8	1.4	6.8	7.4
Chinese Taipei	805	69.9	16.1	69.9	13.9	0.1	73.4	66.5
Egypt	1103	7.3	68.4	7.3	23.3	1.0	7.6	7.0
England	694	57.6	25.7	57.6	16.4	0.3	62.5	52.5
Georgia	575	11.2	33.6	11.2	53.2	2.0	8.5	13.6
Hong Kong SAR	588	64.6	20.9	64.6	14.6	0.0	67.6	61.9
Hungary	704	51.8	28.8	51.8	18.9	0.4	52.7	50.9
Iran, Islamic Rep. of	884	9.3	50.6	9.3	38.2	1.9	9.3	9.3
Ireland	673	61.6	25.6	61.6	12.7	0.1	68.5	54.8
Israel	782	38.2	32.6	38.2	27.8	1.3	36.5	40.1
Italy	627	33.8	35.0	33.8	30.9	0.4	32.6	34.8
Japan	673	67.1	24.4	67.1	7.6	0.9	70.1	63.7
Jordan	1120	8.1	67.3	8.1	23.2	1.4	9.1	7.1
Kazakhstan	688	38.5	40.8	38.5	20.3	0.4	41.1	35.7
Korea, Rep. of	760	57.7	30.3	57.7	11.8	0.2	59.5	56.1
Kuwait	607	8.9	57.8	8.9	32.3	1.1	6.9	10.9
Lebanon	552	13.6	32.0	13.6	51.8	2.7	14.1	12.9
Lithuania	628	48.1	26.8	48.1	24.8	0.3	49.3	46.9
Malaysia	1377	34.8	48.7	34.8	15.2	1.3	40.1	29.8
Malta	548	51.0	26.1	51.0	22.5	0.4	52.0	50.1
Morocco	1867	5.6	53.8	5.6	39.3	1.3	6.1	5.1
New Zealand	1124	43.6	36.7	43.6	18.9	0.8	44.9	42.2
Norway	663	45.2	26.5	45.2	27.8	0.4	50.8	39.2
Oman	1263	16.1	65.8	16.1	17.3	0.8	19.8	12.6
Qatar	767	23.9	52.9	23.9	21.4	1.8	23.8	24.1
Russian Federation	681	47.8	25.2	47.8	25.9	1.1	50.8	45.0
Saudi Arabia	523	7.6	68.5	7.6	23.5	0.4	9.6	5.6
Singapore	873	74.9	19.3	74.9	5.3	0.5	77.8	72.4
Slovenia	603	39.6	41.2	39.6	19.2	0.0	41.8	37.3
South Africa	1785	11.8	74.6	11.8	10.3	3.3	13.9	9.7
Sweden	594	36.4	32.4	36.4	29.0	2.2	33.2	39.3
Thailand	927	14.4	54.8	14.4	29.9	1.0	18.5	9.5
Turkey	880	19.7	60.1	19.7	19.0	1.2	25.0	15.0
United Arab Emirates	2573	33.6	47.6	33.6	18.1	0.7	38.4	28.9
United States	1477	51.2	37.7	51.2	10.2	1.0	54.6	47.8
International Avg (n=39)	35911	34.5	41.9	34.5	22.5	1.1	36.4	32.6
Buenos Aires, Argentina	451	2.8	21.9	2.8	70.5	4.8	3.5	2.0
Ontario, Canada	649	55.3	26.1	55.3	14.9	3.7	57.6	53.1
Quebec, Canada	573	55.1	19.5	55.1	23.4	1.9	55.6	54.5
Norway (8)	685	35.9	32.3	35.9	31.2	0.6	40.0	31.4
Abu Dhabi, UAE	687	28.0	51.7	28.0	19.1	1.2	35.4	21.2
Dubai, UAE	884	47.5	38.6	47.5	13.5	0.3	50.4	44.6
Florida, US	296	41.9	44.5	41.9	12.7	0.9	42.0	41.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_09 (S042126): Earth Science / Knowing Type: MC Key: A
Label: Gas increasing in atmosphere

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	81.5	81.5	9.5	4.3	2.3	1.4	1.0	81.6	81.4
Bahrain	704	48.4	48.4	31.4	12.1	6.3	1.4	0.4	49.0	47.9
Botswana	835	56.6	56.6	17.1	13.8	4.5	2.5	5.5	56.7	56.4
Canada	1259	73.5	73.5	13.2	5.3	2.9	1.6	3.5	70.4	76.6
Chile	673	67.1	67.1	17.2	8.4	2.6	3.1	1.6	64.8	69.5
Chinese Taipei	805	85.6	85.6	9.5	3.2	1.6	0.0	0.1	84.3	86.9
Egypt	1103	39.7	39.7	32.7	14.3	10.3	1.9	1.0	41.8	37.4
England	694	82.5	82.5	9.6	3.2	2.8	1.5	0.5	82.7	82.2
Georgia	575	41.6	41.6	36.8	10.6	6.1	2.7	2.2	38.9	44.0
Hong Kong SAR	588	91.5	91.5	4.9	1.7	1.0	0.7	0.0	89.9	92.9
Hungary	705	77.4	77.4	16.5	2.1	3.0	0.2	0.7	72.9	82.4
Iran, Islamic Rep. of	884	57.6	57.6	18.2	12.1	7.5	1.8	2.8	58.7	56.5
Ireland	673	81.0	81.0	10.4	4.6	2.3	1.6	0.1	82.1	79.9
Israel	782	59.4	59.4	17.9	8.6	8.4	4.2	1.5	59.7	59.1
Italy	627	71.5	71.5	17.4	6.3	1.8	2.7	0.4	70.3	72.6
Japan	673	88.2	88.2	7.2	1.5	1.6	0.6	0.9	88.4	88.0
Jordan	1120	56.2	56.2	25.5	9.4	4.9	2.3	1.8	58.4	54.0
Kazakhstan	688	73.9	73.9	18.3	3.1	2.3	2.0	0.4	72.0	75.9
Korea, Rep. of	760	79.4	79.4	15.7	3.4	1.1	0.1	0.2	83.1	76.2
Kuwait	607	47.1	47.1	24.7	14.6	7.6	5.0	1.1	50.1	44.0
Lebanon	550	60.6	60.6	20.4	6.4	3.4	6.5	2.7	60.5	60.6
Lithuania	628	66.2	66.2	22.4	3.7	6.0	1.3	0.4	56.8	75.9
Malaysia	1377	63.7	63.7	21.4	6.9	5.2	1.2	1.6	63.6	63.8
Malta	548	77.4	77.4	12.1	5.6	2.3	2.0	0.5	79.8	75.1
Morocco	1869	53.5	53.5	11.9	24.1	5.8	3.4	1.3	57.6	50.1
New Zealand	1124	74.7	74.7	12.6	7.2	2.0	2.4	1.2	77.2	72.1
Norway	663	76.1	76.1	11.5	4.4	3.7	3.6	0.7	76.6	75.6
Oman	1264	50.7	50.7	26.7	15.0	4.1	2.7	0.8	53.5	48.0
Qatar	767	59.0	59.0	26.9	6.5	4.2	1.6	1.8	61.6	56.3
Russian Federation	681	74.4	74.4	18.5	3.0	2.2	0.8	1.2	74.3	74.4
Saudi Arabia	524	51.0	51.0	27.2	14.0	6.2	1.1	0.6	51.5	50.4
Singapore	873	84.1	84.1	10.8	2.4	2.0	0.2	0.5	84.1	84.0
Slovenia	603	67.6	67.6	19.8	3.8	7.7	1.0	0.0	67.0	68.2
South Africa	1785	55.8	55.8	13.2	18.7	5.6	3.0	3.7	58.6	53.1
Sweden	594	79.0	79.0	9.0	2.9	3.4	3.2	2.5	76.0	82.0
Thailand	927	66.5	66.5	18.0	6.7	6.1	1.6	1.1	66.5	66.4
Turkey	880	62.8	62.8	21.7	9.4	4.3	0.4	1.3	65.2	60.6
United Arab Emirates	2573	61.1	61.1	23.4	9.2	3.0	2.5	0.7	65.2	57.3
United States	1477	74.2	74.2	14.5	5.5	2.8	1.6	1.4	73.2	75.0
International Avg (n=39)	35913	67.1	67.1	17.8	7.6	4.1	2.0	1.3	67.3	67.0
Buenos Aires, Argentina	451	55.8	55.8	19.5	7.3	2.5	9.6	5.2	56.4	55.3
Ontario, Canada	648	74.2	74.2	11.2	5.7	3.1	1.7	4.1	73.8	74.5
Quebec, Canada	573	73.1	73.1	15.5	4.2	3.3	1.9	1.9	65.8	81.6
Norway (8)	685	68.9	68.9	18.0	6.0	3.6	2.8	0.7	62.9	75.5
Abu Dhabi, UAE	687	61.8	61.8	18.6	12.0	3.7	2.8	1.2	68.1	56.0
Dubai, UAE	884	71.9	71.9	19.2	4.7	2.0	1.7	0.4	74.7	69.1
Florida, US	296	74.1	74.1	16.7	5.1	1.9	1.3	0.9	68.9	79.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S05_10 (S042210): Physics / Knowing Type: MC Key: C
Label: Mass/volume of frozen water

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	32.3	8.2	43.2	32.3	14.1	0.9	1.2	30.7	34.0
Bahrain	705	37.7	8.0	38.8	37.7	13.3	1.4	0.9	38.3	37.1
Botswana	840	27.2	17.4	32.4	27.2	13.4	3.5	6.1	29.4	24.7
Canada	1260	31.0	9.9	36.2	31.0	17.1	1.8	3.9	30.8	31.3
Chile	673	28.2	11.7	35.3	28.2	19.5	3.5	1.9	28.1	28.2
Chinese Taipei	805	51.0	7.3	16.9	51.0	24.2	0.6	0.1	49.0	52.8
Egypt	1102	47.6	13.7	26.0	47.6	9.4	2.2	1.1	48.8	46.2
England	694	31.4	7.3	45.9	31.4	13.6	1.0	0.8	31.8	31.1
Georgia	575	37.6	13.7	29.4	37.6	15.6	1.5	2.2	36.1	39.0
Hong Kong SAR	588	32.5	7.0	35.7	32.5	24.0	0.7	0.0	29.2	35.3
Hungary	704	48.7	4.4	32.5	48.7	13.4	0.4	0.6	44.8	53.0
Iran, Islamic Rep. of	884	44.4	13.8	22.7	44.4	14.1	2.1	2.9	47.7	41.3
Ireland	673	43.2	10.2	34.8	43.2	10.5	1.2	0.1	42.8	43.5
Israel	782	41.4	5.5	18.1	41.4	30.0	3.0	2.0	41.3	41.6
Italy	627	36.8	6.1	41.3	36.8	13.4	1.8	0.5	36.1	37.5
Japan	673	55.8	4.8	15.7	55.8	22.5	0.4	0.9	56.2	55.4
Jordan	1120	44.1	11.1	27.7	44.1	13.5	1.8	1.8	48.5	39.6
Kazakhstan	688	54.2	6.8	23.3	54.2	13.4	1.9	0.4	53.6	54.8
Korea, Rep. of	760	72.1	2.5	9.9	72.1	15.2	0.1	0.2	71.8	72.4
Kuwait	608	37.6	16.0	29.4	37.6	11.6	4.1	1.2	34.3	40.9
Lebanon	550	37.5	11.7	28.8	37.5	13.4	5.9	2.7	38.0	36.8
Lithuania	628	38.4	6.5	33.5	38.4	19.6	1.5	0.4	38.8	38.0
Malaysia	1377	36.4	7.0	30.5	36.4	22.3	1.9	1.9	32.8	39.8
Malta	548	33.1	9.1	40.2	33.1	14.2	2.8	0.5	31.8	34.5
Morocco	1871	39.1	9.2	35.9	39.1	11.9	2.6	1.3	37.1	40.8
New Zealand	1124	30.7	9.9	41.4	30.7	14.3	2.4	1.2	29.4	32.1
Norway	663	46.2	6.1	34.3	46.2	10.1	2.5	0.9	46.2	46.2
Oman	1260	32.3	14.1	33.9	32.3	14.1	4.7	0.9	31.0	33.7
Qatar	767	34.4	11.6	33.2	34.4	16.9	1.8	1.9	37.5	31.3
Russian Federation	681	43.2	3.9	33.2	43.2	17.3	1.2	1.2	38.7	47.3
Saudi Arabia	523	36.5	11.1	35.2	36.5	15.2	1.2	0.8	38.1	34.9
Singapore	873	35.8	3.9	33.7	35.8	25.6	0.6	0.5	33.1	38.0
Slovenia	603	39.2	4.8	36.7	39.2	18.5	0.8	0.0	33.1	45.3
South Africa	1785	23.6	21.6	34.6	23.6	13.0	3.2	4.1	23.5	23.6
Sweden	594	35.4	10.4	34.0	35.4	13.5	3.1	3.7	35.0	35.5
Thailand	927	29.1	15.4	37.6	29.1	15.3	1.4	1.2	27.2	31.3
Turkey	880	36.4	7.4	33.6	36.4	20.9	0.5	1.3	36.3	36.4
United Arab Emirates	2573	33.6	9.1	37.0	33.6	17.1	2.3	0.9	31.9	35.3
United States	1477	37.6	8.2	38.9	37.6	12.0	1.4	1.9	35.4	39.7
International Avg (n=39)	35916	38.8	9.4	32.3	38.8	16.1	1.9	1.4	38.0	39.5
Buenos Aires, Argentina	451	30.7	13.0	24.2	30.7	14.2	12.5	5.5	31.8	29.4
Ontario, Canada	649	29.7	10.6	38.7	29.7	14.1	2.0	4.8	30.4	29.1
Quebec, Canada	573	37.3	6.2	31.8	37.3	20.9	1.8	2.0	36.6	38.2
Norway (8)	685	42.8	12.7	31.0	42.8	10.8	1.9	0.9	44.9	40.3
Abu Dhabi, UAE	687	35.7	10.4	32.6	35.7	16.7	3.1	1.5	34.2	37.1
Dubai, UAE	884	34.3	5.9	40.6	34.3	17.0	1.6	0.5	31.9	36.8
Florida, US	296	43.2	6.3	33.8	43.2	14.0	1.1	1.6	46.7	39.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S05_11 (S042176): Physics / Reasoning Type: CR 1 Point
Label: Flasks contain fresh & salt water

COUNTRY	N	10 %	11 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	28.6	5.1	1.9	0.5	46.2	33.8	16.3	1.3	35.3	32.1
Bahrain	705	33.3	3.6	1.9	2.1	31.2	36.9	26.9	1.1	45.4	28.9
Botswana	840	10.8	1.8	0.4	0.1	59.4	12.6	20.5	7.0	16.3	8.5
Canada	1260	27.0	7.7	1.9	2.3	36.7	34.6	20.3	4.1	33.7	35.5
Chile	673	8.9	1.1	2.1	0.1	30.1	10.0	55.5	2.1	9.8	10.3
Chinese Taipei	805	24.8	2.5	2.0	18.3	32.9	27.3	19.4	0.1	27.6	26.9
Egypt	1102	5.5	1.0	0.6	1.4	42.4	6.5	47.8	1.2	6.8	6.3
England	694	44.0	3.2	0.6	1.7	30.9	47.2	18.9	0.8	50.6	43.5
Georgia	575	19.1	5.9	3.7	0.3	24.8	25.1	43.9	2.2	20.5	29.3
Hong Kong SAR	588	41.2	4.8	1.3	1.5	32.4	46.0	18.7	0.0	45.6	46.4
Hungary	704	20.7	10.6	1.1	0.7	37.1	31.4	29.0	0.7	31.2	31.5
Iran, Islamic Rep. of	884	36.4	3.9	0.9	0.8	27.7	40.4	27.2	3.0	46.2	34.8
Ireland	673	53.0	3.4	1.6	0.6	27.9	56.5	13.2	0.3	61.8	51.2
Israel	782	33.0	2.7	2.1	2.6	26.0	35.6	31.6	2.1	34.1	37.3
Italy	627	22.6	4.9	1.7	0.0	34.6	27.5	35.8	0.5	21.2	33.4
Japan	673	48.7	3.3	1.5	2.4	33.5	52.0	9.7	0.9	56.1	47.4
Jordan	1120	26.9	1.3	2.0	0.0	39.2	28.2	28.8	1.8	32.3	23.9
Kazakhstan	688	35.0	5.1	2.1	2.4	28.5	40.2	25.9	1.0	45.1	35.0
Korea, Rep. of	760	26.0	12.2	0.7	4.0	45.2	38.2	11.7	0.2	39.9	36.7
Kuwait	608	13.3	0.7	0.7	0.6	37.2	14.0	46.0	1.4	16.1	12.0
Lebanon	552	22.2	1.5	1.0	4.1	15.6	23.7	52.1	3.4	25.2	21.9
Lithuania	628	29.1	3.2	0.7	1.6	32.1	32.3	32.9	0.4	33.3	31.4
Malaysia	1377	10.8	3.9	4.0	1.2	50.0	14.7	27.1	3.0	14.6	14.8
Malta	548	32.8	5.4	1.5	0.7	30.1	38.2	29.0	0.5	42.6	33.9
Morocco	1871	15.5	0.3	0.3	0.0	31.1	15.9	51.3	1.4	17.1	14.8
New Zealand	1124	38.3	4.0	0.9	0.3	36.3	42.3	18.8	1.4	44.9	39.7
Norway	663	37.3	8.0	3.2	0.3	29.3	45.3	20.6	1.3	44.0	46.7
Oman	1261	31.5	2.8	3.1	1.2	36.4	34.3	23.8	1.1	41.8	27.1
Qatar	767	21.0	1.4	1.0	2.4	38.0	22.4	34.0	2.2	24.4	20.4
Russian Federation	681	39.4	6.9	0.4	2.2	21.8	46.3	27.8	1.6	48.1	44.5
Saudi Arabia	524	11.3	0.8	1.0	0.8	47.0	12.1	38.1	1.0	14.5	9.7
Singapore	873	49.8	10.7	0.8	3.5	27.8	60.5	6.8	0.5	60.7	60.4
Slovenia	603	41.1	3.1	0.7	2.2	32.8	44.3	20.1	0.0	49.5	38.9
South Africa	1785	7.2	1.6	1.8	0.2	56.4	8.8	28.5	4.3	9.0	8.7
Sweden	594	22.5	5.1	1.6	5.8	28.2	27.6	32.3	4.5	27.9	27.5
Thailand	927	23.3	1.3	0.7	1.0	41.2	24.6	31.0	1.4	29.9	18.1
Turkey	880	12.7	16.5	8.2	13.4	27.0	29.2	20.7	1.5	37.3	21.9
United Arab Emirates	2572	31.4	3.2	1.8	2.9	33.9	34.6	25.7	1.2	41.7	27.7
United States	1477	33.9	5.4	6.2	0.8	42.7	39.3	8.7	2.3	36.3	42.0
International Avg (n=39)	35919	27.4	4.4	1.8	2.2	34.9	31.8	27.6	1.7	33.8	29.8
Buenos Aires, Argentina	451	2.8	0.4	0.2	0.2	20.8	3.2	69.6	6.1	3.7	2.8
Ontario, Canada	649	18.6	8.8	2.4	2.4	38.9	27.5	23.6	5.2	26.8	28.1
Quebec, Canada	573	40.7	5.1	1.2	2.6	32.1	45.8	16.3	2.0	45.9	45.5
Norway (8)	685	31.4	4.2	2.4	0.7	35.2	35.7	24.7	1.3	33.7	37.9
Abu Dhabi, UAE	687	25.7	2.3	1.4	3.2	37.7	28.0	27.8	1.9	34.3	22.2
Dubai, UAE	884	42.7	5.1	2.5	3.3	28.5	47.9	16.8	0.9	55.2	40.3
Florida, US	296	27.9	5.2	5.3	1.1	44.6	33.1	13.6	2.3	36.7	29.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_12 (S042211): Physics / Applying Type: CR 1 Point
Label: Forces on student sitting on wall

COUNTRY	N	10 %	11 %	12 %	19 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	1.5	0.2	60.6	1.6	0.4	11.6	19.3	63.9	3.0	1.8	61.7	66.2
Bahrain	706	3.7	1.4	36.4	3.7	1.2	11.2	40.5	45.2	0.6	1.3	48.1	42.5
Botswana	840	2.6	1.3	10.5	0.9	3.3	16.8	53.0	15.2	3.9	7.8	14.9	15.6
Canada	1260	2.8	1.1	55.6	2.5	0.2	14.1	14.4	62.1	3.8	5.4	57.5	66.6
Chile	673	1.8	2.0	38.5	0.9	1.5	8.8	38.6	43.1	5.4	2.5	39.5	46.9
Chinese Taipei	805	9.1	1.4	48.6	1.4	0.9	15.6	21.8	60.5	1.1	0.1	59.2	61.8
Egypt	1103	0.7	0.5	11.1	6.8	1.0	17.6	56.9	19.2	3.7	1.6	19.7	18.6
England	694	7.9	2.1	67.0	2.9	0.2	3.8	13.9	79.9	1.5	0.8	81.3	78.3
Georgia	575	3.9	0.0	35.9	2.8	1.1	13.6	37.4	42.7	2.3	2.9	35.1	49.6
Hong Kong SAR	588	3.1	6.6	54.6	0.4	2.0	6.0	25.4	64.8	1.6	0.0	65.3	64.5
Hungary	704	6.6	0.5	50.8	1.5	0.0	14.6	23.5	59.4	1.5	0.9	53.3	66.1
Iran, Islamic Rep. of	884	1.8	0.6	29.5	0.9	0.1	38.8	22.8	32.7	1.9	3.7	32.9	32.5
Ireland	673	1.1	0.3	62.9	5.4	0.3	7.5	19.1	69.7	2.8	0.5	68.3	71.2
Israel	782	14.8	3.9	39.7	0.9	0.2	7.5	28.6	59.3	2.0	2.3	60.3	58.2
Italy	627	2.0	0.1	47.6	3.5	0.6	14.8	25.1	53.2	4.9	1.2	42.3	63.5
Japan	673	1.9	0.8	38.7	0.8	0.4	16.3	37.9	42.1	2.3	1.0	38.3	46.5
Jordan	1120	1.2	1.7	20.3	4.9	0.8	5.3	61.7	28.1	2.1	2.1	30.8	25.3
Kazakhstan	688	20.0	1.4	32.7	5.5	0.2	0.6	36.1	59.5	2.4	1.2	63.6	55.2
Korea, Rep. of	760	0.6	0.2	34.5	0.7	0.1	42.3	20.6	36.0	0.8	0.2	36.6	35.4
Kuwait	607	2.1	0.1	25.1	2.7	0.5	19.7	45.4	29.9	2.9	1.7	32.6	27.1
Lebanon	552	6.7	3.3	23.6	0.3	1.6	17.7	39.0	34.0	4.2	3.5	38.1	29.2
Lithuania	628	1.4	1.0	61.7	2.1	1.8	10.1	20.6	66.1	0.9	0.5	66.8	65.5
Malaysia	1377	2.3	0.4	22.8	0.8	3.8	12.7	48.1	26.4	5.0	4.0	25.3	27.4
Malta	548	9.8	3.4	41.1	0.9	0.7	8.1	33.3	55.2	2.0	0.7	56.8	53.6
Morocco	1867	0.2	0.1	19.7	4.8	0.3	24.2	45.2	24.8	3.3	2.2	21.1	27.8
New Zealand	1124	4.2	0.5	53.6	2.2	0.7	10.6	24.0	60.4	2.8	1.5	56.9	64.0
Norway	663	0.0	0.0	41.9	4.4	0.7	11.7	34.0	46.3	5.6	1.7	41.8	51.1
Oman	1264	2.4	0.2	32.0	5.0	1.1	24.0	30.7	39.6	2.8	1.8	44.6	34.8
Qatar	767	3.8	0.6	35.8	2.3	1.4	12.7	39.2	42.5	1.8	2.2	41.3	43.8
Russian Federation	681	7.2	0.1	56.2	2.0	0.5	9.2	21.0	65.6	2.0	1.6	61.8	69.1
Saudi Arabia	523	3.2	1.0	19.3	3.5	0.8	34.3	36.0	27.0	0.5	1.5	34.8	18.7
Singapore	873	3.3	0.5	62.9	0.1	2.8	11.3	18.0	66.8	0.4	0.7	63.8	69.4
Slovenia	603	26.5	2.7	45.1	0.0	0.2	0.1	25.1	74.3	0.2	0.1	75.1	73.5
South Africa	1785	3.7	1.2	11.4	0.1	1.5	16.3	58.6	16.4	2.0	5.2	15.7	17.1
Sweden	594	5.2	0.2	46.4	0.9	0.2	13.9	22.5	52.7	5.6	5.1	52.5	53.1
Thailand	927	1.2	0.3	18.7	8.6	0.7	26.7	34.0	28.8	8.0	1.7	32.1	24.9
Turkey	880	1.5	1.7	36.8	3.9	0.2	28.7	24.0	43.8	1.5	1.8	51.5	36.9
United Arab Emirates	2573	1.0	0.4	42.0	3.7	1.6	19.0	28.8	47.0	2.1	1.5	47.1	46.9
United States	1477	5.4	1.2	62.5	1.5	0.5	14.5	10.3	70.6	1.4	2.7	69.8	71.2
International Avg (n=39)	35919	4.6	1.2	39.3	2.5	0.9	15.2	31.7	47.6	2.6	2.0	47.1	47.9
Buenos Aires, Argentina	450	1.3	0.6	28.4	2.3	0.0	16.9	34.8	32.6	8.6	7.1	31.6	34.0
Ontario, Canada	649	3.9	1.2	64.7	1.7	0.3	7.8	10.5	71.5	2.9	7.0	67.4	75.2
Quebec, Canada	573	1.4	1.0	38.8	2.9	0.2	26.1	21.6	44.1	5.4	2.5	41.2	47.4
Norway (8)	685	0.4	0.2	39.3	4.4	0.1	11.9	32.9	44.3	8.4	2.4	40.7	48.3
Abu Dhabi, UAE	687	0.5	0.6	35.9	5.2	0.3	20.5	32.8	42.2	1.8	2.4	42.4	42.0
Dubai, UAE	884	2.4	0.3	53.9	2.6	3.6	12.1	22.0	59.2	1.7	1.3	58.3	60.2
Florida, US	296	3.8	0.3	63.4	2.4	0.0	12.9	14.1	69.9	0.2	2.9	70.0	69.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_13 (S042135): Earth Science / Knowing Type: CR 1 Point
Label: Water cycle processes

COUNTRY	N	10 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	43.6	26.2	13.2	11.2	43.6	3.2	2.5	45.0	42.1
Bahrain	706	64.8	19.2	5.3	7.0	64.8	2.3	1.3	73.4	56.7
Botswana	840	20.8	18.4	17.1	29.5	20.8	4.7	9.5	19.4	22.5
Canada	1260	59.9	18.1	9.0	3.9	59.9	3.1	5.9	58.2	61.6
Chile	673	49.8	19.2	7.9	7.6	49.8	12.8	2.8	51.2	48.3
Chinese Taipei	805	88.9	6.2	1.7	1.4	88.9	1.8	0.1	88.3	89.5
Egypt	1103	40.0	15.9	9.8	19.2	40.0	13.3	1.8	40.7	39.3
England	694	56.7	21.2	9.1	9.1	56.7	3.2	0.8	58.7	54.6
Georgia	575	32.4	22.1	12.3	15.4	32.4	14.7	3.1	31.5	33.2
Hong Kong SAR	588	84.5	8.6	2.4	3.1	84.5	1.3	0.0	82.9	85.9
Hungary	704	38.9	49.5	5.5	2.0	38.9	3.0	0.9	38.4	39.5
Iran, Islamic Rep. of	884	58.0	17.2	6.5	7.3	58.0	7.2	3.8	59.4	56.6
Ireland	673	57.8	20.3	10.5	9.4	57.8	1.2	0.8	62.7	53.1
Israel	782	65.6	16.3	3.4	5.0	65.6	7.3	2.5	68.0	62.9
Italy	627	74.7	12.2	4.6	2.3	74.7	4.7	1.5	71.2	78.0
Japan	673	78.5	13.3	4.1	1.3	78.5	1.5	1.3	78.2	78.9
Jordan	1120	56.6	15.3	7.0	12.9	56.6	5.5	2.7	61.1	51.9
Kazakhstan	688	34.5	25.4	5.8	21.2	34.5	11.6	1.6	34.3	34.7
Korea, Rep. of	760	56.5	34.1	4.8	3.4	56.5	0.7	0.4	51.7	60.8
Kuwait	608	41.9	22.6	7.4	15.7	41.9	10.8	1.7	50.4	33.3
Lebanon	552	23.7	14.5	1.7	38.8	23.7	17.9	3.5	28.1	18.6
Lithuania	628	66.1	19.6	7.8	3.2	66.1	2.8	0.5	65.7	66.5
Malaysia	1377	36.3	28.9	14.7	12.6	36.3	3.2	4.3	36.0	36.5
Malta	548	48.5	19.8	7.9	20.7	48.5	2.2	0.9	49.8	47.2
Morocco	1859	45.9	20.3	9.8	14.8	45.9	6.8	2.4	44.4	47.2
New Zealand	1124	50.0	25.7	9.3	9.9	50.0	3.3	1.8	54.7	45.2
Norway	663	64.5	18.4	5.2	5.7	64.5	4.5	1.7	64.5	64.4
Oman	1262	62.4	16.8	7.6	5.9	62.4	5.3	1.9	66.3	58.7
Qatar	767	48.2	24.3	7.0	14.4	48.2	3.6	2.4	50.7	45.6
Russian Federation	681	78.8	8.2	3.7	2.0	78.8	5.7	1.6	80.4	77.3
Saudi Arabia	524	53.4	22.8	9.4	10.2	53.4	2.7	1.5	62.0	44.3
Singapore	873	65.6	22.9	6.3	3.9	65.6	0.6	0.7	69.6	62.1
Slovenia	603	83.8	6.5	1.9	4.3	83.8	3.4	0.1	85.0	82.6
South Africa	1785	12.7	21.3	24.1	32.5	12.7	3.8	5.5	14.8	10.6
Sweden	594	56.6	17.9	5.3	6.4	56.6	7.7	6.1	58.9	54.7
Thailand	927	55.5	24.9	5.6	4.0	55.5	8.2	1.9	60.1	49.9
Turkey	880	63.5	18.7	6.1	5.4	63.5	4.3	2.0	65.4	61.7
United Arab Emirates	2573	60.4	18.0	9.1	6.5	60.4	4.3	1.6	67.3	53.8
United States	1477	63.9	18.2	7.6	5.1	63.9	1.9	3.3	63.0	64.6
International Avg (n=39)	35911	55.0	19.7	7.6	10.1	55.0	5.3	2.3	56.7	53.2
Buenos Aires, Argentina	451	38.7	16.3	7.6	9.4	38.7	21.0	7.0	39.9	37.4
Ontario, Canada	649	54.3	20.1	10.1	3.9	54.3	3.9	7.7	52.2	56.3
Quebec, Canada	573	69.7	15.1	6.4	4.0	69.7	2.0	2.8	66.8	73.0
Norway (8)	685	62.4	13.9	5.8	6.5	62.4	8.4	3.0	60.3	64.8
Abu Dhabi, UAE	687	55.7	17.9	10.0	8.1	55.7	5.9	2.4	65.6	46.4
Dubai, UAE	884	67.3	16.8	7.0	5.1	67.3	2.4	1.5	69.8	64.7
Florida, US	296	55.6	26.6	6.7	4.4	55.6	3.7	2.9	52.4	58.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S05_14 (S042257): Earth Science / Knowing Type: MC Key: B
Label: What causes the phases of the moon

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1451	43.6	17.6	43.6	22.9	9.8	3.1	2.9	40.3	47.0
Bahrain	706	53.6	14.2	53.6	17.0	12.1	1.8	1.3	55.8	51.6
Botswana	840	23.9	28.1	23.9	15.9	18.5	1.6	12.1	22.1	25.8
Canada	1258	46.6	17.9	46.6	19.4	8.0	1.1	7.0	45.2	47.9
Chile	673	43.5	16.0	43.5	21.7	13.2	1.9	3.7	37.3	50.0
Chinese Taipei	805	43.9	11.1	43.9	34.2	10.3	0.4	0.1	38.2	49.5
Egypt	1103	44.2	18.4	44.2	19.0	13.5	2.7	2.1	43.7	44.8
England	694	45.7	19.1	45.7	26.3	5.7	1.8	1.3	44.4	47.1
Georgia	575	41.9	16.3	41.9	20.9	13.9	2.7	4.3	40.4	43.2
Hong Kong SAR	588	57.7	9.4	57.7	27.3	5.0	0.5	0.0	51.2	63.5
Hungary	705	42.0	19.2	42.0	27.6	8.9	1.2	1.0	39.9	44.3
Iran, Islamic Rep. of	884	48.3	11.7	48.3	16.1	17.0	1.6	5.2	47.7	48.9
Ireland	673	33.0	21.6	33.0	28.6	13.4	2.5	0.9	28.7	37.2
Israel	782	48.4	19.1	48.4	16.6	11.9	0.9	3.2	49.9	46.7
Italy	627	41.9	16.4	41.9	17.8	16.4	5.3	2.2	43.6	40.4
Japan	673	44.4	16.0	44.4	28.2	9.5	0.4	1.5	43.7	45.2
Jordan	1120	41.3	17.5	41.3	20.4	16.0	1.8	3.0	40.9	41.7
Kazakhstan	688	60.3	8.5	60.3	22.0	5.6	1.3	2.2	61.1	59.4
Korea, Rep. of	760	65.9	4.5	65.9	23.1	5.6	0.5	0.4	62.3	69.0
Kuwait	608	50.8	17.2	50.8	14.8	12.9	2.2	1.9	50.6	51.0
Lebanon	539	33.3	18.7	33.3	21.4	11.3	10.0	5.4	34.9	31.4
Lithuania	628	49.2	11.4	49.2	31.6	6.5	0.7	0.5	48.8	49.8
Malaysia	1377	56.2	11.2	56.2	16.6	9.9	1.1	5.0	53.9	58.4
Malta	548	46.6	19.4	46.6	19.2	12.9	1.1	0.9	45.7	47.5
Morocco	1859	43.0	18.7	43.0	18.4	14.7	2.2	3.0	43.6	42.5
New Zealand	1124	52.1	16.6	52.1	19.7	7.2	2.2	2.1	51.3	52.9
Norway	663	48.8	11.9	48.8	28.3	5.5	2.8	2.5	47.1	50.7
Oman	1253	47.8	17.2	47.8	14.9	15.4	1.9	2.9	50.5	45.3
Qatar	767	59.5	13.0	59.5	14.6	9.0	1.2	2.7	56.7	62.4
Russian Federation	681	61.2	8.7	61.2	21.6	3.3	3.0	2.1	58.4	63.8
Saudi Arabia	521	42.7	18.4	42.7	18.5	18.2	0.7	1.4	46.6	38.6
Singapore	873	42.6	16.4	42.6	25.5	13.8	0.5	1.2	37.0	47.4
Slovenia	603	61.6	12.5	61.6	16.5	7.1	1.5	0.9	61.9	61.2
South Africa	1785	28.9	23.6	28.9	17.1	19.9	3.7	6.7	30.0	27.9
Sweden	594	47.7	15.7	47.7	20.9	5.4	3.2	7.1	40.3	54.4
Thailand	927	49.2	18.2	49.2	15.3	13.3	1.5	2.6	46.5	52.4
Turkey	880	52.5	18.5	52.5	14.4	11.6	0.5	2.5	52.5	52.5
United Arab Emirates	2573	51.5	14.2	51.5	19.8	10.8	1.8	1.9	53.6	49.4
United States	1477	56.9	13.6	56.9	18.9	5.3	1.5	3.8	51.8	61.5
International Avg (n=39)	35885	47.5	15.8	47.5	20.8	11.0	2.0	2.9	46.1	48.8
Buenos Aires, Argentina	451	39.0	11.9	39.0	24.5	9.1	7.4	8.2	34.3	43.2
Ontario, Canada	649	38.6	20.3	38.6	21.8	9.0	1.2	9.1	36.5	40.5
Quebec, Canada	571	61.0	10.1	61.0	16.2	8.0	1.1	3.6	58.0	64.4
Norway (8)	685	56.8	13.4	56.8	19.9	3.8	2.6	3.4	50.7	63.6
Abu Dhabi, UAE	687	47.5	14.8	47.5	21.4	11.7	1.8	2.9	47.3	47.6
Dubai, UAE	884	60.4	12.2	60.4	15.0	9.5	1.0	1.8	62.7	58.0
Florida, US	296	56.8	12.8	56.8	21.0	5.7	0.7	2.9	54.3	59.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_01 (S052003): Biology / Knowing Type: MC Key: B
Label: Annual growth rings

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	71.1	8.0	71.1	11.9	4.0	4.8	0.2	70.7	71.6
Bahrain	701	49.8	10.7	49.8	25.3	11.8	2.4	0.0	52.7	47.2
Botswana	847	35.5	20.3	35.5	23.0	19.1	2.1	0.0	33.3	37.9
Canada	1200	79.1	6.1	79.1	8.5	5.3	0.6	0.3	79.7	78.4
Chile	676	59.7	11.6	59.7	11.4	13.8	3.4	0.2	62.5	56.7
Chinese Taipei	821	97.7	0.7	97.7	0.0	1.4	0.2	0.1	97.3	98.1
Egypt	1086	43.5	14.5	43.5	22.5	16.1	2.8	0.6	41.4	45.8
England	692	67.8	7.0	67.8	11.1	7.4	6.3	0.3	68.7	66.8
Georgia	572	74.4	15.6	74.4	4.2	3.2	2.2	0.4	70.8	78.0
Hong Kong SAR	597	84.8	2.8	84.8	1.6	9.9	0.9	0.0	86.5	83.3
Hungary	704	82.3	1.0	82.3	9.0	2.2	5.5	0.0	80.8	83.9
Iran, Islamic Rep. of	885	61.3	10.4	61.3	11.5	13.3	3.4	0.3	60.7	61.8
Ireland	663	89.2	2.0	89.2	2.8	2.9	3.0	0.1	87.2	91.1
Israel	787	57.5	9.8	57.5	10.0	11.7	11.0	0.1	57.0	58.0
Italy	627	75.0	3.5	75.0	7.9	6.3	7.3	0.0	71.2	78.6
Japan	681	91.5	1.3	91.5	0.7	4.9	1.5	0.2	93.3	89.6
Jordan	1134	60.6	18.7	60.6	12.0	6.9	1.8	0.0	62.1	59.0
Kazakhstan	697	75.6	5.3	75.6	16.1	2.1	0.6	0.2	73.9	77.6
Korea, Rep. of	757	98.2	0.3	98.2	0.3	1.2	0.0	0.0	98.4	98.1
Kuwait	640	51.3	9.8	51.3	18.0	16.0	4.4	0.5	53.1	49.2
Lebanon	539	51.5	12.5	51.5	11.5	7.4	15.0	2.0	51.6	51.4
Lithuania	621	91.7	2.3	91.7	2.7	0.8	2.6	0.0	91.1	92.3
Malaysia	1377	50.5	21.7	50.5	9.3	16.7	1.6	0.1	50.6	50.4
Malta	545	51.0	13.7	51.0	20.3	11.3	3.7	0.0	49.1	52.9
Morocco	1882	54.9	13.7	54.9	11.8	14.0	5.6	0.1	58.7	51.7
New Zealand	1122	68.3	7.3	68.3	12.6	6.0	5.7	0.1	68.5	68.1
Norway	672	82.6	2.9	82.6	2.1	1.3	11.0	0.1	83.0	82.2
Oman	1254	55.2	14.9	55.2	13.6	14.4	1.9	0.0	54.5	55.9
Qatar	769	49.6	13.4	49.6	16.0	16.2	4.6	0.3	50.9	48.3
Russian Federation	677	84.7	4.0	84.7	8.2	2.0	0.9	0.1	82.7	86.5
Saudi Arabia	529	55.2	11.9	55.2	19.4	12.7	0.8	0.0	61.9	48.3
Singapore	872	71.3	12.5	71.3	8.3	7.6	0.2	0.0	73.9	68.9
Slovenia	604	88.4	0.9	88.4	0.4	3.2	7.2	0.0	88.5	88.2
South Africa	1791	43.1	19.6	43.1	24.6	9.0	3.4	0.3	44.4	41.8
Sweden	585	79.3	3.3	79.3	3.5	2.0	11.8	0.2	85.4	74.7
Thailand	918	51.5	14.5	51.5	15.0	17.6	1.4	0.0	54.0	48.5
Turkey	869	70.9	7.3	70.9	10.7	11.1	0.0	0.0	74.3	67.8
United Arab Emirates	2583	53.7	13.1	53.7	18.1	12.9	2.2	0.0	51.9	55.4
United States	1475	75.3	6.2	75.3	10.6	5.3	2.1	0.5	76.9	73.6
International Avg (n=39)	35919	67.6	9.1	67.6	10.9	8.5	3.7	0.2	68.0	67.1
Buenos Aires, Argentina	428	41.5	9.1	41.5	17.8	9.4	19.4	2.7	47.4	35.8
Ontario, Canada	622	76.8	7.0	76.8	10.3	5.0	0.8	0.0	78.2	75.5
Quebec, Canada	538	83.8	3.5	83.8	4.4	7.0	0.3	1.0	84.2	83.4
Norway (8)	685	81.5	4.1	81.5	3.1	2.1	9.0	0.1	83.7	79.0
Abu Dhabi, UAE	692	49.2	15.6	49.2	18.8	14.3	2.0	0.0	48.8	49.6
Dubai, UAE	881	58.0	11.6	58.0	18.6	9.4	2.3	0.1	54.2	62.1
Florida, US	298	73.6	10.6	73.6	7.6	7.9	0.3	0.0	76.0	71.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_02 (S052071): Biology / Applying Type: MC Key: C
Label: Birds puff up feathers in cold

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	56.9	37.6	2.6	56.9	1.9	0.7	0.2	54.7	59.2
Bahrain	701	31.1	46.9	7.1	31.1	14.0	0.9	0.0	29.9	32.2
Botswana	847	22.4	42.4	23.5	22.4	10.2	1.3	0.1	20.5	24.6
Canada	1234	55.6	40.3	2.0	55.6	1.5	0.3	0.3	50.9	60.1
Chile	676	27.6	62.1	5.1	27.6	4.2	0.8	0.2	23.4	31.9
Chinese Taipei	821	69.7	25.1	3.1	69.7	1.9	0.2	0.1	67.4	72.1
Egypt	1086	30.2	24.7	21.2	30.2	21.7	1.5	0.6	29.2	31.4
England	692	65.6	29.0	2.8	65.6	1.7	0.6	0.3	61.7	70.4
Georgia	572	59.9	27.8	8.0	59.9	3.3	0.6	0.4	57.5	62.4
Hong Kong SAR	597	72.0	22.9	2.6	72.0	1.5	0.9	0.0	69.6	74.1
Hungary	704	61.4	34.0	1.7	61.4	2.2	0.8	0.0	56.2	66.8
Iran, Islamic Rep. of	885	32.1	52.4	7.4	32.1	6.8	1.0	0.3	29.6	34.5
Ireland	663	66.9	29.3	1.6	66.9	1.4	0.7	0.1	63.0	70.4
Israel	787	50.9	39.1	5.5	50.9	3.0	1.3	0.1	46.9	55.3
Italy	627	41.5	52.1	0.8	41.5	1.3	4.3	0.0	36.7	46.2
Japan	681	64.6	28.4	4.4	64.6	2.1	0.4	0.2	65.6	63.5
Jordan	1134	35.2	39.2	10.6	35.2	13.1	1.7	0.1	33.2	37.4
Kazakhstan	697	56.9	30.8	5.2	56.9	5.5	1.4	0.2	58.3	55.4
Korea, Rep. of	757	74.8	21.3	1.8	74.8	1.9	0.3	0.0	69.6	79.0
Kuwait	640	25.3	45.6	15.1	25.3	10.9	2.7	0.5	26.4	23.8
Lebanon	542	16.2	44.9	16.0	16.2	13.8	6.9	2.2	12.1	20.5
Lithuania	621	55.3	38.3	2.6	55.3	2.2	1.6	0.0	58.2	52.3
Malaysia	1377	35.6	49.8	9.1	35.6	4.9	0.4	0.1	36.9	34.2
Malta	545	43.0	41.3	9.6	43.0	5.3	0.7	0.0	39.5	46.3
Morocco	1882	17.5	48.5	12.1	17.5	20.1	1.6	0.1	16.6	18.2
New Zealand	1122	55.3	37.4	2.8	55.3	3.6	0.8	0.2	50.7	60.0
Norway	672	48.7	43.4	3.6	48.7	2.3	1.8	0.2	46.9	50.5
Oman	1255	35.2	37.4	11.5	35.2	14.7	1.1	0.0	37.4	33.2
Qatar	769	37.8	47.1	7.5	37.8	6.9	0.4	0.3	35.2	40.4
Russian Federation	677	72.5	22.5	2.6	72.5	1.8	0.4	0.1	66.3	78.0
Saudi Arabia	529	35.1	36.5	12.6	35.1	15.7	0.0	0.0	42.6	27.2
Singapore	872	73.9	23.1	1.8	73.9	1.2	0.0	0.0	72.4	75.3
Slovenia	604	65.5	30.4	1.2	65.5	1.1	1.8	0.0	62.5	68.5
South Africa	1791	14.9	34.3	27.5	14.9	22.0	1.0	0.3	13.4	16.5
Sweden	585	62.7	31.2	1.7	62.7	1.6	2.6	0.2	59.1	66.1
Thailand	918	28.7	52.5	11.3	28.7	7.0	0.5	0.0	29.4	27.8
Turkey	869	48.7	43.1	3.1	48.7	5.0	0.1	0.0	45.4	51.8
United Arab Emirates	2583	36.6	43.4	9.7	36.6	9.0	1.3	0.0	36.8	36.4
United States	1475	51.4	42.9	2.3	51.4	2.2	0.7	0.5	48.7	53.7
International Avg (n=39)	35957	47.1	37.9	7.2	47.1	6.4	1.2	0.2	45.1	48.9
Buenos Aires, Argentina	431	32.5	44.3	6.2	32.5	7.7	6.4	3.0	35.0	30.0
Ontario, Canada	644	55.7	39.2	2.5	55.7	2.2	0.4	0.0	52.6	58.6
Quebec, Canada	549	54.0	42.9	1.2	54.0	0.6	0.2	1.1	47.9	61.1
Norway (8)	685	43.9	48.4	2.2	43.9	4.3	1.1	0.1	42.1	45.9
Abu Dhabi, UAE	692	33.2	42.9	9.9	33.2	12.4	1.6	0.0	36.1	30.6
Dubai, UAE	881	46.4	40.9	7.0	46.4	5.3	0.3	0.1	42.2	50.9
Florida, US	298	42.4	49.1	4.1	42.4	4.4	0.0	0.0	37.6	46.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_03 (S052246): Biology / Applying Type: MC Key: A
Label: Limbs from different organisms

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	53.5	53.5	7.0	29.9	7.0	2.4	0.2	50.7	56.4
Bahrain	701	39.3	39.3	18.2	20.9	19.8	1.9	0.0	45.3	33.5
Botswana	847	19.7	19.7	18.3	37.5	22.2	2.2	0.1	18.6	20.8
Canada	1236	55.8	55.8	10.7	24.4	7.2	1.5	0.4	55.4	56.3
Chile	676	41.3	41.3	7.3	40.8	9.0	1.3	0.2	37.2	45.5
Chinese Taipei	821	70.2	70.2	11.7	13.8	4.2	0.0	0.1	67.8	72.7
Egypt	1113	30.5	30.5	18.4	20.2	28.1	2.1	0.6	31.3	29.6
England	692	56.0	56.0	9.7	25.8	7.1	1.2	0.3	54.2	58.1
Georgia	572	25.2	25.2	26.6	18.1	26.7	3.0	0.4	21.9	28.4
Hong Kong SAR	597	51.8	51.8	15.7	23.0	9.1	0.3	0.0	46.0	56.8
Hungary	704	59.5	59.5	11.0	16.2	12.8	0.5	0.0	57.0	62.1
Iran, Islamic Rep. of	886	25.6	25.6	22.7	20.3	28.5	2.6	0.3	21.7	29.3
Ireland	663	56.0	56.0	10.3	22.6	9.8	1.2	0.1	53.0	58.8
Israel	787	42.9	42.9	16.0	22.3	16.2	2.6	0.1	38.0	48.0
Italy	627	62.0	62.0	9.0	10.0	13.1	5.9	0.0	61.9	62.1
Japan	681	72.0	72.0	15.3	4.4	7.7	0.3	0.2	70.6	73.5
Jordan	1134	30.8	30.8	24.3	17.8	24.8	2.2	0.1	28.4	33.3
Kazakhstan	697	57.0	57.0	15.7	12.0	14.0	1.1	0.2	55.9	58.1
Korea, Rep. of	757	49.0	49.0	25.2	13.1	12.0	0.8	0.0	46.4	51.1
Kuwait	641	35.7	35.7	20.9	23.3	16.7	2.6	0.8	39.5	31.5
Lebanon	545	35.0	35.0	15.7	19.4	18.7	9.0	2.2	33.2	37.0
Lithuania	621	50.3	50.3	23.1	14.4	11.1	1.1	0.0	52.4	48.0
Malaysia	1377	23.5	23.5	31.1	28.4	14.8	2.0	0.2	19.5	27.6
Malta	545	45.4	45.4	11.8	29.5	11.7	1.6	0.0	47.4	43.5
Morocco	1882	26.1	26.1	27.3	16.6	27.6	2.3	0.1	29.0	23.7
New Zealand	1122	47.3	47.3	8.8	35.2	7.0	1.3	0.3	46.6	48.1
Norway	672	56.6	56.6	14.2	8.8	18.4	1.7	0.2	52.0	61.0
Oman	1255	32.4	32.4	19.2	22.3	24.1	2.0	0.0	30.2	34.4
Qatar	769	41.9	41.9	18.2	18.7	18.0	2.9	0.3	45.9	38.2
Russian Federation	677	58.2	58.2	18.0	9.6	12.7	1.4	0.1	54.2	61.7
Saudi Arabia	529	32.1	32.1	16.1	31.6	19.7	0.5	0.0	36.0	27.9
Singapore	872	53.4	53.4	8.6	26.1	11.1	0.8	0.0	51.2	55.5
Slovenia	604	57.4	57.4	20.4	12.8	9.0	0.4	0.0	56.7	58.1
South Africa	1791	24.7	24.7	19.1	29.4	24.4	2.1	0.3	24.6	24.9
Sweden	585	63.7	63.7	10.2	9.2	14.2	2.4	0.2	65.3	62.8
Thailand	918	37.0	37.0	27.3	12.0	22.5	1.2	0.0	34.3	40.3
Turkey	869	29.9	29.9	13.0	31.4	25.3	0.4	0.0	28.1	31.6
United Arab Emirates	2583	34.6	34.6	18.6	22.8	20.9	3.1	0.1	34.0	35.2
United States	1475	60.1	60.1	5.5	27.7	5.0	1.2	0.5	58.6	61.8
International Avg (n=39)	35991	44.7	44.7	16.4	21.1	15.7	1.9	0.2	43.6	45.8
Buenos Aires, Argentina	429	40.3	40.3	14.3	21.0	11.6	9.7	3.1	34.8	45.7
Ontario, Canada	643	55.0	55.0	9.6	27.3	7.2	0.9	0.1	56.2	54.1
Quebec, Canada	552	56.7	56.7	13.7	19.1	7.3	2.1	1.1	50.6	63.8
Norway (8)	685	56.8	56.8	15.9	9.8	15.6	1.8	0.1	54.9	58.9
Abu Dhabi, UAE	692	30.2	30.2	20.4	21.9	24.0	3.6	0.0	27.5	32.6
Dubai, UAE	881	44.9	44.9	14.6	23.2	15.4	1.7	0.2	45.5	44.2
Florida, US	298	53.0	53.0	7.5	34.3	4.9	0.4	0.0	54.5	51.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_04 (S052276): Biology / Knowing Type: MC Key: D
Label: Good source of calcium

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	73.5	5.0	6.4	13.7	73.5	1.1	0.3	74.5	72.5
Bahrain	701	65.6	12.4	4.2	17.3	65.6	0.5	0.0	78.0	53.9
Botswana	847	32.6	13.2	17.0	35.1	32.6	1.6	0.4	33.8	31.3
Canada	1239	82.8	3.0	4.3	9.0	82.8	0.6	0.4	85.3	80.3
Chile	676	77.9	4.2	4.5	12.3	77.9	0.9	0.2	76.3	79.5
Chinese Taipei	821	71.5	17.9	0.2	10.1	71.5	0.2	0.1	71.8	71.2
Egypt	1119	43.8	8.6	5.7	40.1	43.8	1.1	0.6	44.3	43.3
England	692	82.8	3.4	5.6	6.5	82.8	1.4	0.3	85.8	79.2
Georgia	572	60.5	15.6	3.2	18.2	60.5	1.9	0.4	57.4	63.6
Hong Kong SAR	597	54.7	26.2	2.5	15.8	54.7	0.7	0.0	58.7	51.4
Hungary	704	47.0	13.5	4.1	34.6	47.0	0.9	0.0	46.2	47.9
Iran, Islamic Rep. of	886	42.1	8.5	3.6	44.7	42.1	0.9	0.3	43.2	41.0
Ireland	663	91.7	2.1	3.2	2.3	91.7	0.6	0.1	95.3	88.4
Israel	787	64.1	7.7	2.6	24.2	64.1	1.3	0.2	66.6	61.4
Italy	627	73.3	3.5	5.7	17.0	73.3	0.4	0.0	76.4	70.4
Japan	681	84.3	3.7	0.5	10.8	84.3	0.2	0.5	83.9	84.8
Jordan	1134	47.7	10.0	4.2	36.5	47.7	1.6	0.1	50.7	44.4
Kazakhstan	697	65.5	12.5	2.0	18.7	65.5	1.1	0.2	66.0	65.0
Korea, Rep. of	757	72.3	10.5	1.0	16.2	72.3	0.0	0.0	76.6	68.8
Kuwait	641	48.3	17.6	7.5	24.0	48.3	1.9	0.8	53.4	42.7
Lebanon	547	40.3	15.3	6.0	28.8	40.3	6.9	2.8	43.2	37.1
Lithuania	621	52.3	14.3	4.7	27.2	52.3	1.5	0.0	51.9	52.6
Malaysia	1377	48.1	29.3	9.9	11.3	48.1	1.2	0.3	48.2	48.0
Malta	545	62.1	10.4	7.1	19.3	62.1	0.9	0.2	67.3	57.2
Morocco	1882	45.9	29.7	2.0	19.4	45.9	2.8	0.2	50.8	41.9
New Zealand	1122	77.6	5.9	3.7	11.0	77.6	1.5	0.3	79.7	75.4
Norway	672	54.2	7.8	6.3	29.5	54.2	2.0	0.2	52.3	56.1
Oman	1254	55.1	22.0	3.8	17.3	55.1	1.8	0.0	59.3	51.3
Qatar	769	58.2	13.2	5.3	20.7	58.2	2.1	0.6	62.6	54.1
Russian Federation	677	54.4	18.1	1.7	23.8	54.4	1.8	0.1	57.7	51.6
Saudi Arabia	530	58.0	12.7	4.8	24.2	58.0	0.4	0.0	64.5	51.3
Singapore	872	87.8	5.0	1.5	5.7	87.8	0.0	0.0	87.4	88.2
Slovenia	604	32.7	14.5	13.5	37.3	32.7	2.0	0.0	31.4	34.1
South Africa	1791	36.4	19.3	18.2	24.1	36.4	1.5	0.5	37.9	34.9
Sweden	585	66.9	5.8	6.2	17.7	66.9	3.2	0.2	67.7	66.4
Thailand	918	86.2	8.5	1.3	3.2	86.2	0.7	0.1	89.3	82.4
Turkey	869	68.4	4.4	1.3	25.8	68.4	0.1	0.0	74.0	63.2
United Arab Emirates	2583	58.6	12.5	3.4	22.8	58.6	2.6	0.1	63.4	54.0
United States	1475	67.5	10.3	6.2	14.0	67.5	1.3	0.6	67.7	67.2
International Avg (n=39)	36002	61.4	11.7	5.0	20.3	61.4	1.4	0.3	63.6	59.2
Buenos Aires, Argentina	434	65.7	6.6	3.2	16.3	65.7	5.1	3.1	67.7	63.8
Ontario, Canada	643	85.6	2.5	4.6	6.7	85.6	0.5	0.1	90.7	81.1
Quebec, Canada	555	76.0	4.2	4.3	13.6	76.0	0.8	1.1	75.3	76.7
Norway (8)	685	46.0	13.8	8.4	30.2	46.0	1.5	0.1	43.8	48.3
Abu Dhabi, UAE	692	52.7	12.9	4.0	27.2	52.7	3.3	0.0	57.8	48.0
Dubai, UAE	881	68.4	8.7	3.0	19.0	68.4	0.7	0.3	73.3	62.9
Florida, US	298	61.7	14.8	7.3	15.5	61.7	0.7	0.0	63.7	59.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_05A (S052303A): Biology / Applying Type: MC Key: B
Label: Pond: Fish eat mosquito larvae

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	66.7	1.9	66.7	2.6	26.4	2.1	0.3	67.7	65.7
Bahrain	702	53.0	10.7	53.0	7.8	26.5	2.0	0.0	55.1	51.1
Botswana	847	46.5	14.7	46.5	6.6	30.2	1.6	0.4	47.3	45.6
Canada	1234	62.2	3.6	62.2	2.2	30.9	0.7	0.4	68.0	56.7
Chile	676	65.1	4.8	65.1	3.9	24.4	1.5	0.2	71.5	58.6
Chinese Taipei	821	79.4	3.8	79.4	1.1	15.6	0.0	0.1	83.6	75.0
Egypt	1119	35.0	18.6	35.0	13.6	30.0	2.1	0.6	33.6	36.6
England	692	59.1	6.4	59.1	1.1	32.1	1.0	0.3	64.2	53.0
Georgia	571	60.6	8.2	60.6	5.0	22.3	3.6	0.4	66.5	54.7
Hong Kong SAR	597	69.1	5.3	69.1	2.9	21.9	0.6	0.0	72.4	66.3
Hungary	704	77.7	1.5	77.7	0.9	19.7	0.2	0.0	80.7	74.5
Iran, Islamic Rep. of	886	51.4	11.4	51.4	4.1	30.9	1.9	0.3	54.4	48.5
Ireland	663	61.2	6.1	61.2	2.3	29.4	0.9	0.1	55.9	66.1
Israel	787	71.6	6.8	71.6	2.3	18.0	1.2	0.2	71.0	72.2
Italy	627	66.1	4.7	66.1	2.8	25.3	1.0	0.0	68.7	63.6
Japan	681	86.4	2.2	86.4	1.8	8.7	0.4	0.5	89.0	83.6
Jordan	1134	41.9	15.1	41.9	7.1	33.0	2.7	0.2	41.4	42.5
Kazakhstan	697	66.4	8.0	66.4	3.4	19.0	3.1	0.2	71.9	60.4
Korea, Rep. of	757	86.5	2.8	86.5	0.5	9.9	0.3	0.0	89.8	83.8
Kuwait	641	43.3	16.2	43.3	9.0	25.1	5.6	0.8	43.2	43.1
Lebanon	543	51.7	11.5	51.7	9.4	15.5	8.7	3.2	54.7	48.6
Lithuania	621	59.4	6.3	59.4	2.6	27.4	4.3	0.0	64.7	53.7
Malaysia	1377	67.9	3.2	67.9	2.9	24.9	0.8	0.3	70.8	64.9
Malta	545	61.5	8.8	61.5	4.0	23.8	1.8	0.2	61.0	62.0
Morocco	1882	37.6	16.5	37.6	14.2	29.1	2.3	0.2	41.1	34.8
New Zealand	1122	66.5	3.6	66.5	4.3	23.5	1.8	0.3	69.7	63.1
Norway	672	72.2	4.3	72.2	1.9	19.3	2.2	0.2	76.1	68.4
Oman	1255	47.2	13.5	47.2	10.0	26.2	3.1	0.0	49.8	44.8
Qatar	769	59.4	10.2	59.4	5.3	22.5	2.0	0.6	58.2	60.5
Russian Federation	677	70.5	4.1	70.5	0.8	22.6	1.9	0.1	75.8	66.0
Saudi Arabia	531	44.2	16.0	44.2	11.3	27.9	0.7	0.0	48.1	40.0
Singapore	872	86.6	3.6	86.6	0.7	8.7	0.2	0.0	88.4	85.0
Slovenia	604	69.3	2.1	69.3	2.5	25.0	1.2	0.0	76.1	62.6
South Africa	1791	42.8	16.2	42.8	11.1	28.0	1.4	0.6	40.2	45.4
Sweden	585	69.0	2.4	69.0	1.9	21.2	5.2	0.2	75.9	63.4
Thailand	918	72.8	1.8	72.8	3.6	20.5	1.3	0.1	80.0	63.8
Turkey	869	60.3	7.5	60.3	5.5	26.1	0.6	0.0	59.0	61.5
United Arab Emirates	2583	64.0	7.4	64.0	4.2	22.6	1.6	0.1	68.1	60.2
United States	1475	71.6	3.2	71.6	1.5	22.3	0.9	0.6	75.8	67.4
International Avg (n=39)	35995	62.1	7.6	62.1	4.6	23.5	1.9	0.3	64.9	59.4
Buenos Aires, Argentina	432	55.6	5.8	55.6	2.3	23.2	10.0	3.1	61.5	49.7
Ontario, Canada	642	64.6	3.6	64.6	1.4	29.7	0.7	0.1	70.0	59.7
Quebec, Canada	551	60.7	4.5	60.7	3.3	29.4	0.9	1.1	67.8	52.5
Norway (8)	685	70.2	5.0	70.2	2.8	20.1	1.7	0.2	75.8	64.0
Abu Dhabi, UAE	692	60.4	7.2	60.4	5.6	24.9	1.7	0.2	69.3	52.4
Dubai, UAE	881	69.4	5.7	69.4	1.9	22.0	0.8	0.3	71.1	67.6
Florida, US	298	67.5	5.1	67.5	4.2	23.2	0.0	0.0	72.6	62.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_05B (S052303B): Biology / Reasoning Type: CR 1 Point
Label: Pond: Adding more fish

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	46.9	51.4	46.9	1.3	0.3	48.6	45.2
Bahrain	702	27.2	70.4	27.2	1.8	0.5	28.3	26.2
Botswana	847	24.9	72.4	24.9	2.2	0.5	26.5	23.2
Canada	1240	45.7	52.9	45.7	1.0	0.5	44.2	47.0
Chile	676	30.3	65.3	30.3	3.9	0.5	29.6	31.1
Chinese Taipei	821	55.8	43.8	55.8	0.4	0.1	58.1	53.3
Egypt	1119	12.6	83.6	12.6	3.1	0.7	14.7	10.1
England	692	45.5	53.1	45.5	1.1	0.3	45.9	45.0
Georgia	571	11.5	84.0	11.5	4.2	0.4	7.4	15.6
Hong Kong SAR	597	51.0	48.2	51.0	0.8	0.0	48.2	53.3
Hungary	704	49.2	50.7	49.2	0.1	0.0	47.3	51.1
Iran, Islamic Rep. of	886	17.2	79.2	17.2	3.4	0.3	19.3	15.1
Ireland	663	41.4	58.0	41.4	0.5	0.1	39.7	43.0
Israel	787	34.3	64.5	34.3	1.0	0.2	33.8	34.8
Italy	627	37.3	60.5	37.3	2.1	0.0	36.2	38.4
Japan	681	58.1	41.4	58.1	0.0	0.5	58.9	57.3
Jordan	1134	18.0	80.6	18.0	1.3	0.2	20.0	15.8
Kazakhstan	697	40.2	56.9	40.2	2.6	0.2	43.8	36.4
Korea, Rep. of	757	52.7	47.1	52.7	0.2	0.0	50.2	54.8
Kuwait	639	14.4	81.8	14.4	2.4	1.4	15.8	12.5
Lebanon	549	14.8	74.5	14.8	6.9	3.8	17.4	12.1
Lithuania	621	42.4	56.4	42.4	1.2	0.1	48.1	36.3
Malaysia	1377	40.7	56.6	40.7	2.5	0.3	37.9	43.5
Malta	545	35.0	62.3	35.0	2.1	0.6	33.9	36.0
Morocco	1879	16.2	82.2	16.2	1.3	0.3	15.6	16.6
New Zealand	1122	50.0	48.3	50.0	1.3	0.3	51.6	48.4
Norway	672	47.5	50.5	47.5	1.8	0.2	50.8	44.4
Oman	1253	27.9	69.0	27.9	3.0	0.0	30.5	25.6
Qatar	767	25.2	73.3	25.2	0.8	0.7	25.2	25.2
Russian Federation	677	36.3	62.9	36.3	0.7	0.1	34.8	37.6
Saudi Arabia	531	19.6	79.9	19.6	0.4	0.0	22.5	16.5
Singapore	872	66.4	33.4	66.4	0.2	0.0	68.5	64.5
Slovenia	604	54.6	45.1	54.6	0.3	0.0	57.6	51.7
South Africa	1791	15.6	81.6	15.6	1.9	0.9	17.9	13.3
Sweden	581	51.9	46.2	51.9	1.1	0.8	52.9	51.2
Thailand	918	51.7	44.8	51.7	3.3	0.1	57.3	45.0
Turkey	869	35.3	64.0	35.3	0.7	0.0	35.6	35.0
United Arab Emirates	2582	27.5	70.8	27.5	1.5	0.2	30.5	24.7
United States	1475	44.1	54.6	44.1	0.6	0.6	44.2	44.1
International Avg (n=39)	35993	36.3	61.6	36.3	1.7	0.4	37.2	35.4
Buenos Aires, Argentina	435	18.2	68.1	18.2	10.2	3.6	18.6	17.7
Ontario, Canada	644	47.4	51.4	47.4	1.0	0.2	46.5	48.1
Quebec, Canada	555	36.6	61.5	36.6	0.8	1.1	35.6	37.9
Norway (8)	685	46.9	50.2	46.9	2.6	0.2	49.4	44.2
Abu Dhabi, UAE	692	24.6	73.6	24.6	1.7	0.2	29.6	20.0
Dubai, UAE	881	34.9	63.4	34.9	1.4	0.3	32.7	37.4
Florida, US	298	44.5	55.5	44.5	0.0	0.0	48.7	40.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S06_06 (S052125): Biology / Applying Type: MC Key: D
Label: Body parts as organ systems

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	69.8	1.5	0.8	26.6	69.8	0.9	0.3	68.9	70.8
Bahrain	702	55.8	2.4	5.7	33.9	55.8	1.6	0.5	58.5	53.3
Botswana	847	54.1	3.7	3.8	36.8	54.1	1.1	0.5	53.2	55.0
Canada	1237	63.8	0.5	1.1	34.0	63.8	0.2	0.5	63.0	64.5
Chile	676	51.5	1.6	1.9	44.0	51.5	0.4	0.5	51.7	51.3
Chinese Taipei	821	51.1	0.4	2.3	46.0	51.1	0.0	0.2	49.5	52.7
Egypt	1119	62.2	6.9	4.4	24.3	62.2	1.4	0.8	65.7	58.2
England	692	54.5	1.1	2.6	41.2	54.5	0.4	0.3	56.9	51.5
Georgia	571	62.2	2.8	0.9	32.7	62.2	1.0	0.4	65.2	59.1
Hong Kong SAR	597	56.0	0.3	2.2	41.0	56.0	0.5	0.0	54.8	57.0
Hungary	704	70.9	0.0	0.5	28.6	70.9	0.0	0.0	66.8	75.3
Iran, Islamic Rep. of	886	72.2	2.8	6.8	16.9	72.2	1.0	0.3	67.0	77.1
Ireland	663	65.0	0.5	1.1	32.6	65.0	0.7	0.1	67.1	63.1
Israel	787	64.4	3.1	1.6	29.6	64.4	1.1	0.2	67.7	60.9
Italy	627	77.3	0.9	3.1	17.5	77.3	1.1	0.0	75.3	79.3
Japan	681	30.7	1.1	8.6	58.4	30.7	0.8	0.5	33.1	28.2
Jordan	1134	46.6	6.5	6.0	39.9	46.6	1.0	0.2	52.2	40.5
Kazakhstan	696	63.6	1.2	0.3	34.1	63.6	0.6	0.2	63.3	63.9
Korea, Rep. of	757	69.3	0.0	5.6	24.9	69.3	0.1	0.0	71.2	67.7
Kuwait	641	59.1	5.3	7.1	23.7	59.1	3.3	1.4	63.4	54.4
Lebanon	544	55.4	5.9	2.9	27.0	55.4	4.9	3.9	57.4	53.3
Lithuania	621	64.5	0.3	0.6	33.7	64.5	0.9	0.1	66.1	62.7
Malaysia	1377	58.4	2.1	1.1	37.6	58.4	0.4	0.3	58.2	58.7
Malta	545	58.1	4.0	1.9	35.0	58.1	0.4	0.6	60.3	56.0
Morocco	1852	38.9	6.4	3.8	49.3	38.9	1.3	0.3	40.0	37.9
New Zealand	1122	56.3	1.5	2.0	38.7	56.3	1.2	0.3	54.2	58.5
Norway	672	48.1	1.4	1.8	46.5	48.1	1.9	0.2	51.3	45.1
Oman	1255	60.8	5.4	4.7	27.2	60.8	1.7	0.3	63.6	58.2
Qatar	769	56.8	4.8	2.8	33.7	56.8	1.1	0.7	58.3	55.4
Russian Federation	677	74.2	0.1	0.0	25.2	74.2	0.3	0.1	74.2	74.3
Saudi Arabia	531	52.0	4.0	6.7	35.8	52.0	1.4	0.0	59.6	44.0
Singapore	872	74.2	0.2	0.4	24.7	74.2	0.4	0.0	74.0	74.5
Slovenia	604	66.7	0.3	0.7	31.8	66.7	0.5	0.0	66.6	66.7
South Africa	1791	57.0	7.6	7.8	25.5	57.0	1.0	1.0	59.2	54.8
Sweden	585	58.7	0.8	1.2	35.8	58.7	2.7	0.8	59.5	57.8
Thailand	918	65.2	2.1	1.6	29.9	65.2	1.1	0.1	65.9	64.4
Turkey	869	46.6	3.4	2.7	46.9	46.6	0.5	0.0	44.7	48.3
United Arab Emirates	2583	61.2	2.8	3.8	30.6	61.2	1.5	0.2	62.4	60.0
United States	1475	63.5	1.0	1.5	32.6	63.5	0.7	0.6	62.2	64.8
International Avg (n=39)	35968	59.4	2.5	2.9	33.7	59.4	1.1	0.4	60.3	58.4
Buenos Aires, Argentina	433	55.2	1.3	2.0	34.1	55.2	3.8	3.6	58.2	52.3
Ontario, Canada	643	72.2	0.6	1.7	25.1	72.2	0.2	0.2	71.6	72.8
Quebec, Canada	553	45.1	0.3	0.2	53.2	45.1	0.2	1.1	48.3	41.3
Norway (8)	685	46.5	2.6	2.1	46.2	46.5	2.4	0.2	45.2	47.9
Abu Dhabi, UAE	692	51.6	4.9	5.2	35.9	51.6	2.2	0.2	50.1	52.9
Dubai, UAE	881	72.8	1.0	1.7	23.5	72.8	0.7	0.3	74.7	70.7
Florida, US	298	64.5	1.5	0.5	33.1	64.5	0.3	0.0	63.7	65.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_07 (S052145): Chemistry / Reasoning Type: CR 1 Point
Label: State of water, mercury, iron

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	38.8	54.3	38.8	6.5	0.3	33.8	44.1
Bahrain	702	28.0	64.2	28.0	7.1	0.7	27.6	28.4
Botswana	847	10.5	83.1	10.5	5.7	0.7	9.5	11.5
Canada	1240	43.6	51.3	43.6	4.6	0.5	38.5	48.6
Chile	676	19.2	50.5	19.2	29.8	0.5	12.9	25.8
Chinese Taipei	821	74.4	23.3	74.4	2.1	0.2	72.3	76.7
Egypt	1119	15.9	68.9	15.9	14.4	0.8	15.3	16.5
England	692	41.3	53.9	41.3	4.5	0.3	38.5	44.6
Georgia	571	37.0	45.1	37.0	17.5	0.4	31.8	42.1
Hong Kong SAR	597	67.5	31.4	67.5	1.1	0.0	65.2	69.5
Hungary	704	58.8	38.8	58.8	2.3	0.0	53.1	64.8
Iran, Islamic Rep. of	886	17.5	54.9	17.5	27.3	0.3	14.7	20.1
Ireland	663	43.5	51.2	43.5	5.2	0.1	40.7	46.0
Israel	787	48.0	44.4	48.0	7.2	0.4	43.3	53.1
Italy	627	41.6	41.3	41.6	17.2	0.0	33.0	49.9
Japan	681	68.0	27.2	68.0	4.2	0.5	65.6	70.5
Jordan	1134	24.8	69.0	24.8	6.0	0.2	25.7	23.7
Kazakhstan	696	53.7	37.8	53.7	8.3	0.2	54.1	53.2
Korea, Rep. of	757	67.8	31.1	67.8	1.1	0.0	69.1	66.7
Kuwait	640	20.9	64.0	20.9	13.7	1.4	23.9	17.5
Lebanon	549	24.3	60.6	24.3	10.9	4.2	27.3	21.1
Lithuania	621	39.0	53.4	39.0	7.5	0.1	38.1	40.0
Malaysia	1377	30.3	60.2	30.3	9.3	0.3	31.2	29.3
Malta	545	38.2	53.4	38.2	7.8	0.6	35.2	40.9
Morocco	1849	16.9	70.3	16.9	12.5	0.4	17.7	16.3
New Zealand	1122	38.8	52.6	38.8	8.3	0.3	33.4	44.4
Norway	672	41.2	48.0	41.2	10.7	0.2	38.5	43.7
Oman	1255	28.2	66.6	28.2	4.8	0.4	30.7	26.0
Qatar	769	27.9	64.6	27.9	6.8	0.7	26.1	29.5
Russian Federation	677	65.8	28.2	65.8	5.9	0.1	63.0	68.2
Saudi Arabia	531	18.2	73.1	18.2	8.3	0.3	18.6	17.9
Singapore	872	74.0	25.1	74.0	0.9	0.0	72.1	75.7
Slovenia	604	58.5	39.6	58.5	1.9	0.0	58.5	58.4
South Africa	1791	7.2	85.4	7.2	6.2	1.2	7.7	6.7
Sweden	585	53.6	38.9	53.6	6.7	0.8	49.5	57.1
Thailand	918	21.5	69.5	21.5	8.9	0.1	21.4	21.6
Turkey	869	42.1	48.8	42.1	9.1	0.0	42.8	41.5
United Arab Emirates	2583	35.1	59.5	35.1	5.2	0.2	32.3	37.8
United States	1475	40.0	57.0	40.0	2.2	0.7	37.1	42.8
International Avg (n=39)	35972	39.0	52.3	39.0	8.2	0.5	37.2	40.8
Buenos Aires, Argentina	435	13.6	36.6	13.6	45.9	4.0	10.3	16.9
Ontario, Canada	644	39.2	55.0	39.2	5.6	0.2	35.7	42.4
Quebec, Canada	555	53.2	43.0	53.2	2.7	1.1	43.9	64.2
Norway (8)	685	38.9	47.6	38.9	13.3	0.2	36.6	41.4
Abu Dhabi, UAE	692	27.9	66.6	27.9	5.4	0.2	28.2	27.5
Dubai, UAE	881	47.3	48.3	47.3	4.1	0.3	40.6	54.7
Florida, US	298	37.5	58.7	37.5	3.8	0.0	38.1	37.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S06_08 (S052049): Chemistry / Applying Type: CR 2 Points
Label: Separating iron and copper

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	12.1	32.2	52.1	44.3	12.1	3.3	0.4	13.5	10.5
Bahrain	702	11.4	34.2	50.5	45.5	11.4	3.3	0.7	15.4	7.5
Botswana	847	6.6	20.7	68.4	27.3	6.6	3.5	0.8	5.9	7.3
Canada	1240	12.2	30.1	51.2	42.3	12.2	5.6	0.9	12.0	12.5
Chile	676	11.1	18.5	53.2	29.6	11.1	16.7	0.5	12.1	10.1
Chinese Taipei	821	24.7	47.2	25.3	71.9	24.7	2.7	0.2	27.1	22.1
Egypt	1119	4.5	17.1	70.7	21.5	4.5	6.6	1.2	5.1	3.7
England	692	22.1	32.4	41.1	54.5	22.1	4.0	0.4	24.4	19.2
Georgia	572	19.7	35.4	36.5	55.0	19.7	8.1	0.4	19.1	20.2
Hong Kong SAR	597	11.6	35.7	50.9	47.3	11.6	1.8	0.0	11.8	11.3
Hungary	704	17.7	48.6	30.8	66.3	17.7	2.9	0.0	21.4	13.8
Iran, Islamic Rep. of	886	3.9	40.8	50.2	44.8	3.9	4.7	0.3	5.2	2.7
Ireland	663	20.3	30.3	47.1	50.6	20.3	2.2	0.1	19.4	21.1
Israel	787	18.5	37.9	38.6	56.3	18.5	4.5	0.5	22.6	14.0
Italy	627	9.4	46.4	36.3	55.8	9.4	7.9	0.0	8.9	9.9
Japan	681	19.7	43.5	33.2	63.2	19.7	3.1	0.5	19.1	20.3
Jordan	1134	9.0	31.3	52.2	40.3	9.0	7.4	0.2	9.4	8.6
Kazakhstan	697	32.6	38.7	24.8	71.3	32.6	3.3	0.6	31.0	34.4
Korea, Rep. of	757	13.9	43.0	41.5	56.9	13.9	1.6	0.0	16.4	12.0
Kuwait	639	8.8	18.1	65.1	26.9	8.8	6.2	1.8	11.1	6.4
Lebanon	548	10.3	25.5	45.8	35.9	10.3	13.9	4.3	11.5	9.1
Lithuania	621	6.6	41.7	48.6	48.3	6.6	3.1	0.1	9.2	3.7
Malaysia	1377	14.8	34.3	43.9	49.0	14.8	6.6	0.5	15.3	14.3
Malta	545	19.6	29.8	46.0	49.4	19.6	3.9	0.6	23.8	15.6
Morocco	1879	0.3	17.4	74.8	17.6	0.3	7.0	0.6	0.5	0.1
New Zealand	1122	23.1	26.5	46.8	49.5	23.1	3.2	0.4	25.4	20.6
Norway	672	6.4	36.8	51.9	43.2	6.4	4.6	0.3	7.9	5.0
Oman	1255	12.2	25.2	55.6	37.4	12.2	6.6	0.4	14.6	10.0
Qatar	768	11.7	31.1	50.9	42.8	11.7	5.6	0.7	12.3	11.2
Russian Federation	677	35.8	32.5	28.0	68.3	35.8	3.6	0.1	33.6	37.8
Saudi Arabia	531	3.7	24.0	69.4	27.6	3.7	2.5	0.5	4.0	3.3
Singapore	872	43.4	30.6	25.4	74.0	43.4	0.6	0.0	43.5	43.3
Slovenia	604	33.9	35.5	28.5	69.4	33.9	2.1	0.0	35.7	32.1
South Africa	1791	1.3	14.4	78.3	15.7	1.3	4.4	1.6	1.6	0.9
Sweden	585	15.9	35.0	42.4	50.9	15.9	6.0	0.8	18.6	13.9
Thailand	918	6.9	32.1	48.9	39.0	6.9	11.8	0.2	10.7	2.3
Turkey	869	22.0	26.8	45.1	48.8	22.0	6.1	0.0	25.9	18.4
United Arab Emirates	2581	10.2	33.9	50.7	44.1	10.2	4.9	0.3	11.3	9.2
United States	1475	10.3	37.5	48.5	47.8	10.3	2.7	0.9	10.8	9.8
International Avg (n=39)	35999	14.8	32.1	47.4	46.9	14.8	5.1	0.6	16.1	13.5
Buenos Aires, Argentina	435	2.4	15.9	54.8	18.4	2.4	21.9	4.9	3.2	1.7
Ontario, Canada	644	10.0	26.9	56.3	36.8	10.0	6.1	0.8	9.7	10.2
Quebec, Canada	555	13.9	33.1	46.8	47.0	13.9	5.0	1.2	15.0	12.7
Norway (8)	685	10.3	35.4	46.7	45.8	10.3	7.2	0.4	10.1	10.5
Abu Dhabi, UAE	692	7.1	30.0	56.4	37.1	7.1	6.0	0.5	7.8	6.5
Dubai, UAE	879	16.8	37.4	42.1	54.3	16.8	3.3	0.4	17.7	15.8
Florida, US	298	8.4	33.1	57.0	41.5	8.4	1.5	0.0	9.3	7.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S06_09 (S052063): Chemistry / Knowing Type: MC Key: C
Label: Chemical process releases energy

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	52.7	28.2	8.1	52.7	9.0	1.6	0.4	49.8	55.7
Bahrain	702	42.3	25.8	18.2	42.3	11.8	1.3	0.7	42.8	41.7
Botswana	846	31.6	29.0	12.7	31.6	23.5	2.2	1.1	32.1	31.0
Canada	1234	58.2	25.7	6.0	58.2	7.8	1.3	1.1	58.8	57.4
Chile	676	45.4	33.0	10.6	45.4	7.1	3.2	0.6	44.1	46.8
Chinese Taipei	821	66.6	16.1	7.7	66.6	9.0	0.5	0.2	64.5	68.9
Egypt	1119	42.9	23.7	11.4	42.9	18.6	1.8	1.5	45.4	39.9
England	692	48.2	32.0	7.8	48.2	10.2	1.1	0.7	48.6	47.6
Georgia	572	53.1	27.4	5.5	53.1	12.4	1.2	0.4	52.4	53.7
Hong Kong SAR	597	67.2	16.2	4.6	67.2	11.2	0.7	0.0	63.2	70.7
Hungary	704	52.7	29.2	2.9	52.7	14.4	0.8	0.0	53.5	51.8
Iran, Islamic Rep. of	886	49.1	21.6	19.3	49.1	7.5	2.1	0.4	50.2	48.1
Ireland	663	53.7	26.4	5.2	53.7	13.7	0.8	0.1	53.8	53.6
Israel	787	60.3	19.3	8.6	60.3	9.2	1.9	0.7	59.5	61.2
Italy	627	61.1	25.5	4.2	61.1	7.7	1.2	0.2	61.7	60.6
Japan	681	72.8	17.7	2.5	72.8	6.0	0.5	0.5	70.1	75.7
Jordan	1134	45.2	29.1	10.2	45.2	13.2	2.1	0.3	45.9	44.4
Kazakhstan	697	61.0	18.1	3.8	61.0	14.9	1.4	0.7	63.0	58.9
Korea, Rep. of	757	67.7	21.1	4.8	67.7	6.2	0.2	0.0	66.6	68.6
Kuwait	641	41.1	23.0	15.7	41.1	13.7	4.1	2.4	41.5	40.5
Lebanon	546	47.2	25.5	7.1	47.2	8.4	6.9	5.0	47.7	46.6
Lithuania	621	49.0	23.9	8.5	49.0	14.8	3.7	0.2	43.7	54.6
Malaysia	1377	40.7	23.4	22.9	40.7	10.5	1.9	0.6	33.9	47.7
Malta	545	44.8	30.5	9.5	44.8	13.4	1.1	0.6	48.8	41.1
Morocco	1882	37.4	42.4	5.3	37.4	11.5	2.6	0.8	33.3	40.7
New Zealand	1122	51.9	25.5	9.2	51.9	11.2	1.7	0.4	49.1	54.9
Norway	672	36.0	43.5	4.8	36.0	12.1	3.3	0.3	34.4	37.5
Oman	1255	44.2	28.7	9.5	44.2	15.6	1.3	0.7	47.4	41.4
Qatar	769	44.2	29.3	15.8	44.2	8.9	1.2	0.7	42.1	46.2
Russian Federation	677	65.9	17.1	3.7	65.9	11.9	1.3	0.1	66.8	65.2
Saudi Arabia	529	34.5	32.3	16.4	34.5	15.4	1.0	0.5	35.9	32.9
Singapore	872	64.1	14.6	9.3	64.1	11.5	0.6	0.0	60.8	67.1
Slovenia	604	60.2	16.4	5.9	60.2	14.2	3.1	0.3	57.2	63.0
South Africa	1791	20.8	48.2	10.1	20.8	16.2	2.7	1.9	21.5	20.2
Sweden	585	48.5	32.9	3.9	48.5	10.7	3.2	0.8	46.6	50.1
Thailand	918	34.7	27.5	7.4	34.7	27.5	2.6	0.2	33.0	36.8
Turkey	869	53.2	18.0	14.6	53.2	13.5	0.6	0.1	56.6	50.1
United Arab Emirates	2583	44.7	25.4	16.9	44.7	11.2	1.5	0.4	44.7	44.6
United States	1475	51.9	29.7	7.1	51.9	8.9	1.4	1.1	50.6	53.2
International Avg (n=39)	35996	49.9	26.2	9.2	49.9	12.2	1.8	0.7	49.3	50.5
Buenos Aires, Argentina	430	31.3	34.6	6.0	31.3	10.1	12.9	5.0	30.6	32.1
Ontario, Canada	641	53.6	29.5	6.0	53.6	8.3	1.5	1.1	55.4	51.8
Quebec, Canada	552	69.5	16.8	6.0	69.5	5.3	1.2	1.2	69.0	70.1
Norway (8)	685	30.0	47.0	5.2	30.0	12.7	4.1	1.0	25.1	35.3
Abu Dhabi, UAE	692	38.2	30.1	18.0	38.2	11.7	1.5	0.6	42.7	34.0
Dubai, UAE	881	51.3	25.4	12.8	51.3	8.8	1.3	0.4	47.4	55.6
Florida, US	298	49.0	31.2	13.0	49.0	5.6	1.2	0.0	43.9	53.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_10 (S052192): Physics / Reasoning Type: MC Key: A
Label: Mirror behind screen

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	64.7	64.7	8.9	14.2	9.6	2.1	0.5	59.4	70.3
Bahrain	702	38.2	38.2	16.5	28.6	14.1	1.7	0.8	36.7	39.6
Botswana	847	20.9	20.9	12.2	38.6	25.0	2.1	1.2	16.3	25.9
Canada	1237	68.3	68.3	6.3	15.7	7.4	1.1	1.2	61.3	74.9
Chile	676	41.8	41.8	10.5	31.8	12.6	2.8	0.6	29.9	54.0
Chinese Taipei	821	72.5	72.5	9.3	11.5	6.4	0.2	0.2	66.4	78.9
Egypt	1119	21.5	21.5	15.8	38.9	19.7	2.6	1.5	19.4	24.0
England	692	67.6	67.6	9.6	11.7	8.6	1.6	0.9	60.2	76.4
Georgia	572	28.6	28.6	10.0	38.8	15.8	6.3	0.5	19.2	38.1
Hong Kong SAR	597	71.1	71.1	10.1	10.8	7.4	0.5	0.0	62.9	78.1
Hungary	704	63.0	63.0	7.6	18.7	10.2	0.5	0.0	54.7	71.7
Iran, Islamic Rep. of	886	32.2	32.2	10.4	33.9	19.7	3.3	0.5	27.5	36.5
Ireland	663	64.6	64.6	7.1	16.0	10.7	1.5	0.1	55.1	73.4
Israel	787	49.2	49.2	10.2	23.2	13.9	2.7	0.7	43.9	55.0
Italy	627	53.5	53.5	10.1	23.6	9.4	3.3	0.2	46.2	60.5
Japan	681	75.5	75.5	8.8	7.8	6.7	0.6	0.6	71.2	80.1
Jordan	1134	25.7	25.7	10.8	41.2	19.3	2.6	0.4	22.7	29.0
Kazakhstan	696	58.8	58.8	7.2	20.2	10.2	2.8	0.7	53.9	64.2
Korea, Rep. of	757	76.8	76.8	5.7	10.7	6.5	0.3	0.0	73.1	79.9
Kuwait	641	26.3	26.3	15.0	34.3	17.3	4.5	2.6	21.8	30.5
Lebanon	546	25.3	25.3	7.8	32.3	18.9	10.4	5.2	23.1	27.6
Lithuania	621	65.7	65.7	6.6	15.7	10.1	1.6	0.2	57.5	74.5
Malaysia	1377	45.5	45.5	11.2	28.6	12.9	1.3	0.6	37.4	53.8
Malta	545	52.2	52.2	10.0	21.2	12.8	2.8	1.0	45.1	58.9
Morocco	1864	23.3	23.3	9.4	42.5	21.1	3.0	0.7	20.6	25.5
New Zealand	1122	72.4	72.4	6.4	10.6	8.9	1.3	0.5	68.8	76.2
Norway	672	68.2	68.2	8.4	11.4	8.0	3.5	0.5	64.5	71.7
Oman	1244	35.3	35.3	12.9	32.1	17.5	1.6	0.6	33.1	37.4
Qatar	769	42.2	42.2	9.4	31.8	14.2	1.6	0.7	34.3	49.8
Russian Federation	677	65.9	65.9	7.2	15.8	8.2	2.8	0.1	56.6	73.9
Saudi Arabia	531	9.0	9.0	36.2	27.9	25.3	1.0	0.5	8.6	9.5
Singapore	872	85.1	85.1	4.9	5.6	4.1	0.3	0.0	80.2	89.6
Slovenia	604	64.9	64.9	8.0	16.2	9.7	0.9	0.3	59.5	70.3
South Africa	1791	15.7	15.7	8.9	43.0	26.7	3.3	2.4	12.6	18.9
Sweden	585	75.2	75.2	6.2	7.0	5.3	5.6	0.8	70.3	79.7
Thailand	918	41.2	41.2	10.6	32.3	13.2	2.6	0.2	33.9	50.1
Turkey	869	44.6	44.6	11.2	25.3	18.6	0.1	0.2	38.7	50.0
United Arab Emirates	2583	46.6	46.6	10.4	24.8	15.1	2.7	0.4	44.5	48.6
United States	1475	64.1	64.1	6.8	16.9	9.3	1.7	1.2	58.3	69.4
International Avg (n=39)	35972	50.3	50.3	10.1	23.4	13.1	2.3	0.8	44.9	55.8
Buenos Aires, Argentina	432	31.6	31.6	8.5	22.9	14.6	17.0	5.3	26.7	36.5
Ontario, Canada	642	67.7	67.7	6.1	15.6	8.6	0.7	1.3	62.5	72.2
Quebec, Canada	554	67.2	67.2	7.7	15.1	6.6	2.2	1.2	56.5	79.7
Norway (8)	685	62.0	62.0	8.2	16.2	9.3	3.4	1.0	57.8	66.7
Abu Dhabi, UAE	692	44.1	44.1	10.5	25.4	16.5	2.9	0.6	43.2	44.9
Dubai, UAE	881	57.8	57.8	9.1	19.6	11.0	2.2	0.4	54.9	61.0
Florida, US	298	51.6	51.6	10.8	24.0	12.3	1.3	0.0	43.6	59.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_11 (S052232): Physics / Reasoning Type: MC Key: D
Label: Bell on Rami's bike

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	31.4	19.3	7.2	38.6	31.4	2.9	0.5	33.9	28.9
Bahrain	702	31.2	22.6	15.1	28.5	31.2	1.8	0.8	29.4	32.9
Botswana	847	27.5	31.5	8.4	28.8	27.5	2.3	1.5	28.6	26.4
Canada	1238	31.8	17.6	8.6	39.5	31.8	1.1	1.3	31.0	32.7
Chile	676	32.0	10.6	13.4	40.3	32.0	3.1	0.6	31.8	32.3
Chinese Taipei	821	17.3	30.5	20.2	31.7	17.3	0.2	0.2	17.5	17.1
Egypt	1119	31.4	28.6	12.9	24.1	31.4	1.4	1.6	31.7	31.0
England	692	28.2	7.8	13.1	48.7	28.2	1.2	0.9	27.9	28.6
Georgia	572	50.4	16.4	11.3	19.2	50.4	2.2	0.5	50.3	50.5
Hong Kong SAR	597	50.5	8.9	11.5	28.2	50.5	0.8	0.0	50.4	50.7
Hungary	704	65.7	9.3	12.5	12.3	65.7	0.2	0.0	62.7	68.9
Iran, Islamic Rep. of	886	51.8	12.7	10.9	22.5	51.8	1.7	0.5	52.1	51.6
Ireland	663	32.2	16.1	9.0	40.2	32.2	2.4	0.1	33.4	31.2
Israel	787	36.5	15.9	12.9	31.6	36.5	2.1	1.0	34.3	39.0
Italy	627	48.5	13.8	13.1	22.7	48.5	1.6	0.2	47.1	49.9
Japan	681	64.4	6.6	10.0	17.7	64.4	0.7	0.6	62.7	66.1
Jordan	1134	31.9	27.8	13.9	23.5	31.9	2.3	0.5	30.5	33.5
Kazakhstan	696	56.5	18.5	6.4	16.3	56.5	1.4	0.9	55.7	57.4
Korea, Rep. of	757	44.4	4.6	10.1	40.8	44.4	0.1	0.0	39.9	48.1
Kuwait	641	26.0	27.2	12.5	27.1	26.0	4.6	2.6	29.5	22.5
Lebanon	546	43.4	14.3	10.4	19.3	43.4	7.1	5.6	49.6	36.6
Lithuania	621	61.4	12.8	7.5	17.7	61.4	0.5	0.2	60.6	62.2
Malaysia	1377	46.0	15.9	25.3	11.3	46.0	0.9	0.6	43.6	48.4
Malta	545	26.8	20.8	9.3	38.8	26.8	3.3	1.0	28.7	24.9
Morocco	1864	31.9	25.7	10.4	29.2	31.9	1.7	1.0	27.3	35.7
New Zealand	1122	31.8	21.7	8.0	35.3	31.8	2.6	0.6	32.3	31.2
Norway	672	43.5	9.1	10.1	33.5	43.5	3.1	0.8	46.8	40.4
Oman	1253	26.3	36.7	9.2	24.8	26.3	2.2	0.8	24.3	28.0
Qatar	769	32.9	23.2	12.4	28.7	32.9	2.0	0.9	30.7	35.0
Russian Federation	677	68.0	11.2	7.8	11.5	68.0	1.3	0.1	63.5	71.9
Saudi Arabia	531	26.1	25.2	14.4	32.8	26.1	0.9	0.5	26.3	25.9
Singapore	872	34.3	15.0	8.8	41.0	34.3	0.9	0.0	35.1	33.5
Slovenia	604	45.9	4.8	9.7	38.5	45.9	0.8	0.3	47.4	44.5
South Africa	1791	25.0	34.0	9.7	26.3	25.0	2.2	2.8	23.7	26.2
Sweden	585	26.2	11.6	10.6	41.1	26.2	9.2	1.2	27.7	24.8
Thailand	918	38.6	12.5	11.8	33.8	38.6	3.1	0.2	39.5	37.5
Turkey	869	29.8	19.1	10.1	40.1	29.8	0.7	0.2	27.4	32.1
United Arab Emirates	2583	32.4	20.9	12.1	32.5	32.4	1.7	0.4	32.7	32.0
United States	1475	31.1	16.0	8.9	40.9	31.1	1.6	1.4	34.8	27.5
International Avg (n=39)	35982	38.2	17.9	11.3	29.7	38.2	2.0	0.8	38.0	38.4
Buenos Aires, Argentina	431	30.3	9.4	9.3	35.8	30.3	8.9	6.3	31.8	28.7
Ontario, Canada	644	30.5	21.2	7.0	38.8	30.5	1.1	1.6	29.0	31.9
Quebec, Canada	553	38.2	8.6	13.3	37.3	38.2	1.4	1.2	34.1	42.9
Norway (8)	685	39.6	10.2	10.4	36.3	39.6	2.6	1.0	40.7	38.4
Abu Dhabi, UAE	692	31.7	22.3	13.6	30.4	31.7	1.5	0.6	29.1	34.1
Dubai, UAE	881	31.7	16.8	10.2	39.1	31.7	1.9	0.4	33.8	29.3
Florida, US	298	29.9	16.6	12.2	39.8	29.9	1.2	0.3	28.5	31.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_12 (S052141): Physics / Applying Type: CR 1 Point
Label: Pressure from wooden block

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	21.6	76.7	21.6	1.1	0.6	19.1	24.2
Bahrain	702	19.2	78.7	19.2	1.2	0.8	20.7	17.9
Botswana	847	2.6	94.1	2.6	1.5	1.8	2.3	2.9
Canada	1240	36.1	61.0	36.1	1.3	1.5	32.2	39.7
Chile	676	17.5	77.9	17.5	4.0	0.6	14.7	20.3
Chinese Taipei	821	41.3	57.8	41.3	0.7	0.2	39.0	43.8
Egypt	1118	5.3	90.0	5.3	3.0	1.7	3.6	7.2
England	692	40.7	57.5	40.7	1.0	0.9	38.5	43.2
Georgia	572	12.1	82.2	12.1	5.3	0.5	8.3	15.9
Hong Kong SAR	597	28.8	70.4	28.8	0.8	0.0	26.1	31.0
Hungary	704	43.1	55.6	43.1	1.3	0.0	34.3	52.3
Iran, Islamic Rep. of	886	9.2	87.3	9.2	2.9	0.6	6.2	11.9
Ireland	663	41.2	58.2	41.2	0.4	0.1	36.5	45.6
Israel	787	21.4	75.8	21.4	1.5	1.3	19.5	23.5
Italy	627	24.5	71.6	24.5	3.6	0.2	17.1	31.8
Japan	681	63.6	35.6	63.6	0.1	0.6	67.4	59.7
Jordan	1134	7.9	89.8	7.9	1.7	0.6	9.8	5.9
Kazakhstan	697	38.0	58.6	38.0	2.6	0.9	39.4	36.5
Korea, Rep. of	757	37.0	62.4	37.0	0.6	0.0	36.7	37.3
Kuwait	641	7.8	86.9	7.8	2.7	2.6	8.7	7.0
Lebanon	549	3.4	85.9	3.4	4.8	5.8	2.7	4.2
Lithuania	621	19.3	79.0	19.3	1.3	0.4	14.3	24.6
Malaysia	1377	7.2	88.4	7.2	3.8	0.6	7.6	6.8
Malta	545	35.8	61.9	35.8	1.3	1.0	34.9	36.6
Morocco	1872	0.5	96.6	0.5	1.6	1.3	0.7	0.3
New Zealand	1122	31.3	66.9	31.3	0.9	0.8	26.0	36.9
Norway	672	34.9	62.2	34.9	1.9	1.0	29.8	39.8
Oman	1253	9.5	88.2	9.5	1.4	0.8	10.6	8.6
Qatar	768	13.8	84.3	13.8	1.0	0.9	12.7	14.8
Russian Federation	677	35.0	63.4	35.0	1.5	0.1	30.5	38.9
Saudi Arabia	531	10.3	87.6	10.3	1.5	0.5	12.2	8.3
Singapore	872	56.2	43.5	56.2	0.2	0.1	55.9	56.4
Slovenia	604	26.1	72.5	26.1	1.1	0.3	24.8	27.3
South Africa	1791	5.8	89.8	5.8	1.4	3.0	5.7	5.8
Sweden	581	49.3	48.0	49.3	1.2	1.5	46.2	52.2
Thailand	0	.	.	.	.	.	.	.
Turkey	869	49.0	49.8	49.0	0.9	0.2	55.1	43.5
United Arab Emirates	2583	18.6	79.4	18.6	1.6	0.5	18.0	19.1
United States	1475	16.3	81.3	16.3	0.9	1.5	14.3	18.2
International Avg (n=38)	35072	24.8	72.6	24.8	1.7	1.0	23.2	26.3
Buenos Aires, Argentina	434	10.9	73.8	10.9	8.5	6.9	11.3	10.5
Ontario, Canada	644	38.1	59.3	38.1	0.9	1.7	37.2	38.7
Quebec, Canada	555	34.4	62.0	34.4	2.1	1.4	27.5	42.6
Norway (8)	685	28.3	68.1	28.3	2.0	1.5	23.4	33.8
Abu Dhabi, UAE	692	12.0	85.7	12.0	1.6	0.8	10.9	12.9
Dubai, UAE	881	29.8	68.4	29.8	1.4	0.4	30.6	28.8
Florida, US	298	6.5	91.5	6.5	1.6	0.3	5.1	7.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S06_13 (S052096): Earth Science / Knowing Type: MC Key: A
Label: Non-renewable energy source

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	71.0	71.0	5.5	13.4	8.0	1.5	0.6	66.0	76.1
Bahrain	702	57.4	57.4	8.8	15.7	16.5	0.8	0.8	57.3	57.5
Botswana	847	48.3	48.3	11.0	23.2	14.0	1.2	2.3	46.5	50.2
Canada	1238	80.2	80.2	4.1	7.8	5.8	0.3	1.7	76.9	83.5
Chile	676	67.7	67.7	6.4	10.6	13.2	1.2	0.9	60.0	75.7
Chinese Taipei	821	84.4	84.4	4.1	7.2	4.1	0.0	0.2	81.9	87.1
Egypt	1118	50.2	50.2	11.4	11.2	24.4	1.1	1.8	52.0	48.1
England	692	77.3	77.3	4.7	10.5	6.1	0.7	0.9	74.4	80.7
Georgia	572	67.2	67.2	9.6	6.6	15.2	0.4	0.9	65.5	69.0
Hong Kong SAR	597	94.5	94.5	1.7	1.5	1.7	0.6	0.0	94.2	94.8
Hungary	704	78.4	78.4	6.1	5.1	8.9	1.1	0.5	76.3	80.5
Iran, Islamic Rep. of	886	55.2	55.2	8.6	9.0	25.2	1.4	0.6	56.0	54.6
Ireland	663	86.5	86.5	3.0	4.4	5.7	0.1	0.2	82.5	90.2
Israel	787	54.0	54.0	9.2	10.0	24.7	0.8	1.3	51.7	56.6
Italy	627	79.7	79.7	4.9	7.1	5.2	2.8	0.4	78.3	81.0
Japan	681	73.6	73.6	3.8	9.2	12.4	0.4	0.6	72.4	74.9
Jordan	1134	77.6	77.6	4.6	5.8	10.3	1.1	0.6	78.6	76.6
Kazakhstan	697	46.3	46.3	7.0	9.4	35.3	1.1	0.9	40.9	52.2
Korea, Rep. of	757	80.6	80.6	4.9	6.2	8.3	0.0	0.0	80.2	81.0
Kuwait	641	44.1	44.1	14.9	14.4	21.8	2.1	2.6	38.5	49.6
Lebanon	546	45.5	45.5	6.5	18.0	19.7	4.1	6.2	50.5	40.1
Lithuania	621	56.4	56.4	8.1	8.4	25.7	0.9	0.4	48.3	65.0
Malaysia	1377	54.3	54.3	4.4	23.1	16.9	0.7	0.6	48.4	60.3
Malta	545	69.3	69.3	7.2	13.1	7.7	1.7	1.0	68.3	70.3
Morocco	1874	48.1	48.1	14.0	15.1	18.9	2.4	1.5	47.5	48.7
New Zealand	1122	73.6	73.6	5.0	10.7	9.0	0.8	0.9	68.2	79.3
Norway	672	79.5	79.5	3.9	5.6	7.8	1.8	1.5	77.3	81.6
Oman	1253	63.6	63.6	10.5	10.2	13.7	1.2	0.8	66.5	61.1
Qatar	769	47.3	47.3	12.5	15.9	22.7	0.7	1.0	41.5	52.8
Russian Federation	677	63.9	63.9	6.2	9.8	18.3	1.2	0.5	59.9	67.5
Saudi Arabia	530	69.7	69.7	7.6	7.9	13.8	0.4	0.5	71.9	67.4
Singapore	872	78.4	78.4	3.0	12.4	6.1	0.0	0.1	71.4	84.7
Slovenia	604	66.1	66.1	4.2	6.5	21.2	1.7	0.3	62.2	70.0
South Africa	1791	37.3	37.3	12.8	28.6	16.1	2.0	3.3	35.9	38.8
Sweden	585	75.4	75.4	3.9	5.2	11.4	2.0	2.0	71.0	79.3
Thailand	917	51.3	51.3	19.2	13.5	14.2	1.6	0.2	49.6	53.4
Turkey	869	48.0	48.0	6.5	8.8	36.3	0.1	0.2	45.8	50.0
United Arab Emirates	2583	66.5	66.5	8.4	11.2	12.0	1.0	0.9	66.9	66.1
United States	1475	72.9	72.9	4.4	13.4	6.8	1.0	1.5	66.5	78.9
International Avg (n=39)	35990	65.2	65.2	7.2	10.9	14.5	1.1	1.1	62.8	67.6
Buenos Aires, Argentina	433	56.5	56.5	9.5	7.3	12.2	7.4	7.1	50.6	62.3
Ontario, Canada	643	77.2	77.2	4.8	9.3	6.9	0.1	1.7	71.5	82.2
Quebec, Canada	554	87.0	87.0	2.0	4.8	3.7	0.7	1.8	86.4	87.6
Norway (8)	685	67.5	67.5	6.2	10.9	11.9	1.9	1.6	62.6	72.9
Abu Dhabi, UAE	692	63.4	63.4	11.2	10.4	12.6	1.2	1.3	66.6	60.6
Dubai, UAE	881	68.0	68.0	7.0	11.9	11.6	0.9	0.6	63.6	72.8
Florida, US	298	69.0	69.0	5.8	14.7	9.9	0.3	0.3	68.3	69.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S06_14 (S052116): Earth Science / Reasoning Type: CR 2 Points
Label: Advantages of long roots in soil

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	32.3	34.9	23.7	67.2	32.3	8.4	0.7	28.5	36.2
Bahrain	702	28.0	29.4	27.6	57.3	28.0	14.1	0.9	29.5	26.5
Botswana	846	19.8	26.1	43.2	45.8	19.8	8.7	2.3	18.6	21.2
Canada	1240	40.5	35.3	14.4	75.8	40.5	8.0	1.8	34.9	45.8
Chile	676	22.1	35.2	17.5	57.3	22.1	23.9	1.3	17.3	27.0
Chinese Taipei	821	52.2	29.9	10.2	82.1	52.2	7.5	0.2	52.4	52.0
Egypt	1117	7.1	14.4	45.2	21.5	7.1	31.4	1.9	6.8	7.6
England	692	44.7	30.3	15.8	74.9	44.7	8.4	0.9	42.9	46.7
Georgia	572	15.6	17.2	19.2	32.9	15.6	47.0	0.9	11.2	20.1
Hong Kong SAR	597	44.1	36.5	13.0	80.6	44.1	6.3	0.0	43.9	44.3
Hungary	704	46.7	18.8	18.9	65.5	46.7	15.2	0.5	42.8	50.8
Iran, Islamic Rep. of	886	21.7	25.9	29.7	47.6	21.7	22.1	0.6	17.6	25.5
Ireland	663	43.3	35.3	14.7	78.6	43.3	6.5	0.2	41.1	45.2
Israel	787	36.0	31.3	14.6	67.4	36.0	16.8	1.3	29.1	43.4
Italy	627	36.1	33.1	9.1	69.2	36.1	21.1	0.5	28.4	43.6
Japan	681	64.6	19.5	6.7	84.1	64.6	8.6	0.6	59.2	70.2
Jordan	1134	9.0	24.0	48.0	33.0	9.0	18.5	0.6	10.7	7.1
Kazakhstan	697	18.2	35.0	28.7	53.2	18.2	17.2	0.9	13.9	23.0
Korea, Rep. of	757	47.3	27.3	17.4	74.6	47.3	8.0	0.0	47.8	46.8
Kuwait	641	26.8	21.2	25.1	48.0	26.8	23.8	3.1	36.2	16.9
Lebanon	549	0.6	17.0	23.1	17.6	0.6	52.9	6.4	1.1	0.0
Lithuania	621	37.9	25.7	15.8	63.7	37.9	19.9	0.6	35.6	40.3
Malaysia	1377	27.5	37.3	23.0	64.8	27.5	11.2	1.0	27.0	28.1
Malta	545	30.8	32.3	21.0	63.2	30.8	14.7	1.2	28.7	32.9
Morocco	1874	5.8	15.4	39.5	21.2	5.8	37.4	1.9	5.3	6.3
New Zealand	1122	30.2	33.2	26.3	63.5	30.2	9.2	1.0	25.7	35.0
Norway	672	32.7	35.1	17.1	67.8	32.7	13.5	1.6	26.4	38.9
Oman	1253	35.7	31.8	23.4	67.5	35.7	8.1	1.0	38.9	32.8
Qatar	769	25.6	27.3	29.0	52.9	25.6	16.8	1.2	23.5	27.6
Russian Federation	677	42.7	20.7	13.7	63.5	42.7	22.2	0.6	41.8	43.6
Saudi Arabia	531	14.1	30.1	37.1	44.1	14.1	18.0	0.7	14.9	13.2
Singapore	872	69.8	21.1	6.2	91.0	69.8	2.7	0.1	70.0	69.7
Slovenia	604	50.4	32.9	5.8	83.2	50.4	10.7	0.3	49.5	51.3
South Africa	1791	7.3	13.7	63.5	21.0	7.3	11.5	4.0	8.1	6.4
Sweden	585	38.0	29.4	13.8	67.5	38.0	16.4	2.4	33.6	41.9
Thailand	918	28.7	30.3	27.1	58.9	28.7	13.6	0.3	31.0	25.8
Turkey	869	29.3	37.3	17.9	66.6	29.3	15.2	0.2	29.6	29.1
United Arab Emirates	2583	31.5	25.6	30.3	57.1	31.5	11.6	1.0	34.1	29.0
United States	1475	28.5	39.1	26.6	67.6	28.5	4.3	1.6	24.4	32.5
International Avg (n=39)	35995	31.4	28.1	23.1	59.5	31.4	16.2	1.2	29.8	32.9
Buenos Aires, Argentina	435	12.6	19.9	14.4	32.5	12.6	45.1	8.0	12.3	12.8
Ontario, Canada	644	41.6	34.1	15.2	75.7	41.6	7.4	1.7	36.6	45.8
Quebec, Canada	555	34.0	38.8	14.5	72.9	34.0	10.5	2.1	26.8	42.6
Norway (8)	685	26.7	37.2	19.0	63.8	26.7	15.5	1.6	22.1	31.7
Abu Dhabi, UAE	692	24.0	22.9	36.4	46.9	24.0	15.1	1.5	28.6	19.9
Dubai, UAE	881	46.5	27.2	19.2	73.7	46.5	6.5	0.6	48.2	44.7
Florida, US	298	24.6	34.3	31.2	58.9	24.6	9.5	0.3	20.9	28.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S06_15 (S052110): Earth Science / Applying Type: CR 1 Point
Label: Weight less on Moon than Earth

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1468	26.8	71.4	26.8	0.6	1.2	19.0	34.8
Bahrain	702	21.7	76.2	21.7	1.0	1.1	25.3	18.3
Botswana	846	3.8	88.8	3.8	2.7	4.7	2.7	5.0
Canada	1240	39.3	57.5	39.3	0.7	2.5	31.0	47.2
Chile	676	15.3	78.4	15.3	4.0	2.3	11.6	19.0
Chinese Taipei	821	27.8	70.4	27.8	1.2	0.6	18.0	38.3
Egypt	1118	17.7	77.1	17.7	1.8	3.4	17.3	18.2
England	692	36.7	60.8	36.7	1.5	0.9	32.0	42.4
Georgia	572	9.9	79.2	9.9	5.5	5.3	3.5	16.4
Hong Kong SAR	597	38.9	59.8	38.9	1.2	0.2	28.6	47.5
Hungary	704	14.5	83.4	14.5	1.0	1.1	9.6	19.7
Iran, Islamic Rep. of	885	18.0	76.4	18.0	3.5	2.1	13.9	21.9
Ireland	663	23.1	76.2	23.1	0.1	0.6	14.7	30.8
Israel	787	28.7	67.5	28.7	1.5	2.2	26.8	30.8
Italy	627	23.1	74.0	23.1	1.6	1.3	17.3	28.6
Japan	681	28.7	70.0	28.7	0.3	1.0	20.4	37.4
Jordan	1134	12.8	84.1	12.8	1.5	1.6	10.9	14.8
Kazakhstan	697	42.7	52.3	42.7	2.6	2.5	35.2	50.8
Korea, Rep. of	757	36.0	62.8	36.0	0.6	0.6	26.7	43.8
Kuwait	641	19.1	74.8	19.1	2.3	3.8	21.3	16.9
Lebanon	549	15.9	72.0	15.9	2.4	9.7	17.3	14.4
Lithuania	621	24.6	73.9	24.6	0.0	1.5	15.1	34.8
Malaysia	1377	15.9	76.7	15.9	3.1	4.3	12.2	19.8
Malta	545	30.8	65.0	30.8	2.5	1.7	25.6	35.7
Morocco	1874	5.5	88.4	5.5	2.3	3.8	3.8	6.9
New Zealand	1122	32.1	65.4	32.1	1.3	1.2	24.0	40.6
Norway	672	20.1	77.0	20.1	0.5	2.4	13.2	26.8
Oman	1251	15.1	80.1	15.1	2.8	2.0	15.4	14.9
Qatar	769	23.6	73.1	23.6	0.9	2.4	19.1	27.9
Russian Federation	677	29.0	68.1	29.0	1.3	1.6	23.1	34.1
Saudi Arabia	531	15.5	81.8	15.5	0.9	1.8	16.2	14.7
Singapore	872	49.3	50.3	49.3	0.2	0.3	46.5	51.8
Slovenia	604	29.4	69.3	29.4	0.2	1.0	27.8	31.1
South Africa	1791	8.7	82.3	8.7	2.6	6.4	8.7	8.8
Sweden	585	29.4	66.5	29.4	1.0	3.1	27.0	31.5
Thailand	918	14.9	78.7	14.9	3.0	3.4	11.2	19.5
Turkey	869	16.6	80.6	16.6	1.1	1.6	14.1	19.0
United Arab Emirates	2583	27.1	70.3	27.1	1.0	1.6	25.7	28.4
United States	1475	43.5	53.7	43.5	0.9	1.9	37.2	49.3
International Avg (n=39)	35993	23.9	72.2	23.9	1.6	2.3	19.7	28.0
Buenos Aires, Argentina	435	10.8	74.3	10.8	4.2	10.8	6.5	15.0
Ontario, Canada	644	40.7	56.4	40.7	0.7	2.2	34.8	46.1
Quebec, Canada	555	30.3	65.4	30.3	0.9	3.4	22.2	39.8
Norway (8)	685	22.2	74.2	22.2	1.2	2.5	16.8	28.1
Abu Dhabi, UAE	692	20.1	76.5	20.1	1.2	2.2	20.2	20.0
Dubai, UAE	881	34.1	63.4	34.1	1.2	1.4	30.9	37.6
Florida, US	298	41.7	57.4	41.7	0.0	0.9	33.5	49.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_01 (S042042): Biology / Knowing Type: MC Key: A
Label: Which organism is a producer

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	73.9	73.9	9.2	8.0	7.6	1.1	0.2	74.1	73.7
Bahrain	693	67.1	67.1	17.2	5.4	9.4	0.8	0.1	71.3	63.2
Botswana	858	70.3	70.3	8.1	7.7	12.4	1.2	0.2	69.8	70.9
Canada	1236	78.8	78.8	7.5	5.7	7.0	0.8	0.3	76.1	81.3
Chile	679	72.2	72.2	11.0	6.7	7.6	2.5	0.0	69.3	75.3
Chinese Taipei	820	85.2	85.2	7.4	4.4	2.6	0.3	0.0	82.8	87.7
Egypt	1106	46.6	46.6	29.2	10.8	11.7	1.7	0.0	45.1	48.4
England	678	70.0	70.0	9.4	7.5	12.1	0.9	0.1	67.6	72.8
Georgia	577	46.1	46.1	26.3	14.3	7.3	5.8	0.3	45.1	47.0
Hong Kong SAR	598	81.8	81.8	7.9	7.7	2.4	0.3	0.0	77.6	85.4
Hungary	706	81.2	81.2	4.4	10.9	3.0	0.5	0.0	79.8	82.8
Iran, Islamic Rep. of	863	57.6	57.6	21.0	4.4	14.5	2.4	0.1	57.9	57.4
Ireland	667	64.3	64.3	12.6	8.7	14.0	0.4	0.0	60.3	68.7
Israel	771	73.6	73.6	8.6	9.2	6.9	1.5	0.1	71.7	75.1
Italy	640	73.8	73.8	5.3	8.2	9.8	2.8	0.0	71.7	76.1
Japan	682	61.8	61.8	18.9	10.8	8.0	0.5	0.0	60.1	63.6
Jordan	1122	83.2	83.2	6.8	2.3	7.0	0.6	0.1	85.6	80.6
Kazakhstan	700	68.2	68.2	13.7	10.9	4.3	2.8	0.1	70.2	65.8
Korea, Rep. of	756	87.0	87.0	4.2	3.5	5.2	0.1	0.0	83.7	89.9
Kuwait	628	60.6	60.6	19.9	7.0	9.0	3.6	0.0	63.9	57.2
Lebanon	543	72.1	72.1	8.1	7.9	6.6	5.2	0.2	71.3	72.9
Lithuania	619	87.9	87.9	2.6	5.4	2.9	1.1	0.0	89.1	86.7
Malaysia	1392	87.9	87.9	3.2	5.4	3.2	0.2	0.1	89.4	86.4
Malta	541	66.4	66.4	10.0	8.4	12.2	2.7	0.4	62.9	69.6
Morocco	1858	72.6	72.6	18.1	4.3	3.3	1.7	0.0	76.5	69.6
New Zealand	1176	78.8	78.8	7.8	5.1	7.0	1.2	0.0	77.2	80.6
Norway	669	62.2	62.2	18.0	14.2	2.6	2.5	0.5	59.9	64.4
Oman	1252	76.7	76.7	9.6	4.7	7.4	1.4	0.2	81.4	72.5
Qatar	774	70.9	70.9	16.4	5.1	6.2	1.3	0.0	72.4	69.5
Russian Federation	685	61.4	61.4	14.5	14.4	4.0	5.7	0.0	66.3	56.7
Saudi Arabia	524	63.9	63.9	18.8	6.7	9.9	0.7	0.0	65.6	62.2
Singapore	872	91.6	91.6	2.7	3.6	1.9	0.2	0.0	92.1	91.2
Slovenia	608	91.7	91.7	0.6	4.4	1.9	1.3	0.0	88.5	94.5
South Africa	1790	65.8	65.8	11.9	12.4	8.4	1.5	0.1	64.7	67.0
Sweden	574	69.9	69.9	10.2	13.2	3.9	2.8	0.0	68.4	71.3
Thailand	920	84.1	84.1	6.1	5.3	4.0	0.5	0.0	88.0	79.2
Turkey	861	77.7	77.7	11.1	2.4	7.9	0.6	0.1	78.6	76.8
United Arab Emirates	2582	72.8	72.8	13.0	4.9	8.3	1.1	0.0	73.8	71.7
United States	1463	80.6	80.6	6.7	4.7	6.6	1.1	0.2	77.9	83.3
International Avg (n=39)	35957	72.8	72.8	11.2	7.4	6.9	1.6	0.1	72.5	73.1
Buenos Aires, Argentina	452	67.1	67.1	8.5	8.5	6.7	8.3	0.9	64.9	69.2
Ontario, Canada	645	78.3	78.3	7.5	5.2	7.4	1.1	0.5	75.8	80.6
Quebec, Canada	549	83.2	83.2	5.8	5.0	5.6	0.4	0.0	79.8	86.8
Norway (8)	695	64.2	64.2	17.4	12.5	3.5	2.1	0.3	61.5	66.7
Abu Dhabi, UAE	698	69.2	69.2	15.0	5.9	8.8	1.0	0.0	73.9	64.9
Dubai, UAE	877	78.4	78.4	9.0	4.6	7.2	0.8	0.0	75.7	81.4
Florida, US	302	84.1	84.1	4.8	3.3	7.1	0.4	0.3	83.4	84.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_02 (S042030): Biology / Applying Type: CR 1 Point
Label: What kind of reproduction

COUNTRY	N	10 %	11 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	0.1	38.4	45.2	11.4	0.5	38.5	4.0	0.4	37.8	39.3
Bahrain	693	4.6	16.7	45.8	22.0	8.1	21.3	2.7	0.1	23.7	19.1
Botswana	858	2.0	21.4	29.0	30.5	14.5	23.4	2.3	0.2	25.9	20.7
Canada	1238	0.7	33.3	48.9	9.4	3.5	34.0	4.0	0.3	34.0	34.1
Chile	679	2.6	25.6	45.1	11.5	4.3	28.2	10.9	0.0	25.6	31.0
Chinese Taipei	820	0.9	40.6	39.6	18.2	0.1	41.4	0.7	0.0	39.1	43.7
Egypt	1106	2.8	4.6	55.4	23.0	12.3	7.4	1.9	0.0	8.9	5.7
England	678	1.6	30.3	47.9	10.8	2.6	31.9	6.7	0.1	33.7	29.7
Georgia	577	1.9	10.3	59.8	20.8	1.7	12.2	5.3	0.3	12.2	12.1
Hong Kong SAR	598	0.6	34.5	49.4	10.3	4.2	35.1	0.9	0.0	35.3	35.0
Hungary	706	0.5	12.6	36.1	47.1	0.8	13.0	2.9	0.0	10.7	15.5
Iran, Islamic Rep. of	863	0.8	36.9	41.4	18.2	0.7	37.8	1.8	0.1	39.1	36.6
Ireland	667	1.0	30.6	55.8	8.4	2.1	31.6	2.2	0.0	29.5	33.9
Israel	771	0.6	29.1	45.4	20.8	0.7	29.8	3.3	0.1	32.1	27.8
Italy	640	0.6	35.4	47.3	8.0	0.5	36.0	8.2	0.0	35.1	36.9
Japan	682	0.1	12.8	39.1	44.2	1.0	12.9	2.7	0.0	12.0	13.9
Jordan	1122	10.9	1.1	34.4	27.9	23.9	12.0	1.7	0.1	12.1	12.0
Kazakhstan	700	9.5	31.9	30.9	17.3	7.3	41.4	3.0	0.1	41.8	40.9
Korea, Rep. of	756	0.0	6.6	32.8	55.7	2.1	6.6	2.8	0.0	4.7	8.2
Kuwait	628	6.7	15.1	47.4	21.6	5.1	21.9	4.0	0.0	25.7	17.5
Lebanon	549	2.2	4.8	54.4	13.9	17.2	7.0	7.4	0.2	7.2	6.7
Lithuania	619	1.0	31.8	56.0	8.4	0.6	32.9	2.2	0.0	32.9	32.8
Malaysia	1392	1.5	8.1	48.2	19.1	15.0	9.6	8.1	0.1	8.8	10.4
Malta	541	1.5	30.5	42.0	18.2	2.4	32.0	5.0	0.4	32.4	31.7
Morocco	1852	1.5	14.4	18.0	40.7	21.8	16.0	3.6	0.0	17.2	15.0
New Zealand	1176	1.6	27.7	51.9	13.0	1.0	29.3	4.8	0.0	30.0	28.5
Norway	669	1.2	10.4	45.5	34.1	2.6	11.6	5.7	0.5	13.1	10.1
Oman	1257	3.0	8.7	26.5	51.2	7.3	11.7	3.1	0.2	13.7	10.0
Qatar	774	4.0	12.1	36.5	26.0	17.6	16.1	3.7	0.0	15.8	16.4
Russian Federation	685	1.5	20.9	66.5	8.4	1.2	22.4	1.5	0.0	24.7	20.2
Saudi Arabia	524	2.0	6.9	52.5	30.7	7.1	8.9	0.8	0.0	10.3	7.4
Singapore	872	2.3	51.0	39.2	6.2	0.4	53.3	1.0	0.0	56.7	50.1
Slovenia	608	7.4	31.8	31.4	6.2	21.8	39.1	1.4	0.0	45.6	33.4
South Africa	1790	1.5	1.8	51.9	37.0	3.6	3.3	4.0	0.3	3.3	3.3
Sweden	574	0.9	17.7	64.8	10.8	0.3	18.5	5.4	0.1	18.9	18.5
Thailand	920	0.3	9.9	71.6	11.7	2.4	10.2	4.1	0.0	11.1	9.1
Turkey	861	19.2	14.6	31.2	29.0	3.8	33.8	2.0	0.1	37.5	30.4
United Arab Emirates	2582	0.7	26.2	42.8	22.2	4.8	26.9	3.3	0.0	29.2	24.8
United States	1463	2.1	47.6	40.8	8.0	0.2	49.7	1.2	0.2	51.1	48.2
International Avg (n=39)	35964	2.7	21.7	44.8	21.3	5.8	24.3	3.6	0.1	25.1	23.6
Buenos Aires, Argentina	456	1.2	15.9	49.3	8.8	7.4	17.1	16.5	0.9	19.7	14.5
Ontario, Canada	645	0.5	28.7	53.2	10.1	2.4	29.2	4.6	0.5	30.9	27.8
Quebec, Canada	551	1.3	43.6	39.4	8.6	5.8	44.9	1.3	0.0	41.8	48.2
Norway (8)	695	0.5	6.5	42.5	38.3	4.1	6.9	7.9	0.3	7.4	6.5
Abu Dhabi, UAE	698	0.8	19.7	46.1	25.2	3.9	20.5	4.3	0.0	21.0	20.1
Dubai, UAE	877	0.8	34.2	41.5	14.4	6.1	35.0	3.0	0.0	40.4	29.0
Florida, US	302	1.3	43.0	44.2	8.8	0.9	44.3	1.4	0.3	47.4	41.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_03 (S042003): Biology / Applying Type: MC Key: B
Label: O2-CO2 exchange in an animal skin

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	50.5	15.4	50.5	19.5	12.5	1.6	0.4	50.3	50.8
Bahrain	693	50.1	15.7	50.1	17.8	14.8	1.5	0.1	52.8	47.6
Botswana	858	27.3	18.1	27.3	25.7	25.2	3.5	0.2	26.9	27.6
Canada	1237	46.4	18.2	46.4	22.1	11.7	1.3	0.3	40.7	52.3
Chile	679	29.5	19.7	29.5	27.9	16.9	6.1	0.0	27.6	31.4
Chinese Taipei	820	69.3	9.3	69.3	10.7	10.5	0.3	0.0	67.4	71.1
Egypt	1105	58.4	12.3	58.4	12.7	15.0	1.6	0.0	59.3	57.4
England	678	36.1	17.6	36.1	28.5	16.1	1.7	0.1	34.9	37.4
Georgia	577	57.7	13.0	57.7	17.0	7.2	4.8	0.3	55.6	59.6
Hong Kong SAR	598	56.8	11.9	56.8	20.7	10.4	0.2	0.0	52.5	60.3
Hungary	706	68.4	5.8	68.4	17.8	7.9	0.1	0.0	65.2	71.8
Iran, Islamic Rep. of	863	27.0	27.5	27.0	27.2	15.1	3.1	0.1	28.6	25.6
Ireland	667	32.2	23.7	32.2	27.4	15.9	0.9	0.0	27.6	37.3
Israel	771	45.9	15.7	45.9	24.7	11.3	2.2	0.1	48.2	44.0
Italy	640	45.7	16.5	45.7	21.8	12.6	3.4	0.0	41.5	50.2
Japan	682	62.3	9.7	62.3	16.1	11.2	0.6	0.1	61.8	62.8
Jordan	1122	30.6	29.2	30.6	18.5	18.0	3.7	0.1	33.3	27.6
Kazakhstan	700	67.1	7.0	67.1	16.5	8.0	1.4	0.1	68.7	65.2
Korea, Rep. of	756	46.8	16.1	46.8	26.7	9.8	0.6	0.0	46.7	46.9
Kuwait	628	35.6	23.6	35.6	23.7	13.3	3.8	0.0	34.8	36.8
Lebanon	545	53.2	12.6	53.2	15.4	9.5	9.2	0.2	57.3	48.6
Lithuania	619	73.7	5.0	73.7	12.6	7.6	1.1	0.0	79.4	68.0
Malaysia	1392	50.4	9.3	50.4	24.6	14.0	1.6	0.1	49.3	51.5
Malta	541	33.6	15.8	33.6	29.7	17.5	3.0	0.4	33.7	33.6
Morocco	1856	54.5	11.9	54.5	17.6	13.3	2.8	0.0	54.4	54.7
New Zealand	1176	39.1	19.4	39.1	26.2	12.9	2.4	0.0	37.8	40.6
Norway	669	30.4	18.4	30.4	23.8	20.4	6.5	0.5	27.9	33.0
Oman	1257	48.6	16.5	48.6	16.8	15.6	2.4	0.2	51.1	46.3
Qatar	774	44.7	17.7	44.7	20.5	14.8	2.3	0.0	44.2	45.2
Russian Federation	685	76.6	3.1	76.6	12.4	5.9	2.0	0.0	75.2	77.8
Saudi Arabia	524	35.6	22.5	35.6	21.4	19.6	1.0	0.0	38.0	32.9
Singapore	872	74.3	9.8	74.3	10.6	4.8	0.4	0.0	72.7	75.8
Slovenia	608	42.7	20.2	42.7	23.5	10.3	3.3	0.0	42.9	42.6
South Africa	1790	27.7	22.6	27.7	24.9	22.6	1.9	0.3	24.5	30.9
Sweden	574	41.3	21.1	41.3	16.4	18.0	3.0	0.2	43.4	39.5
Thailand	920	51.6	19.3	51.6	14.1	13.7	1.3	0.0	54.0	48.7
Turkey	861	31.6	19.7	31.6	23.0	24.5	1.0	0.1	31.8	31.3
United Arab Emirates	2582	48.7	17.0	48.7	18.3	14.0	1.9	0.0	51.2	46.4
United States	1463	42.5	19.2	42.5	23.8	13.1	1.3	0.2	42.9	42.0
International Avg (n=39)	35962	47.3	16.1	47.3	20.5	13.7	2.3	0.1	47.1	47.5
Buenos Aires, Argentina	447	33.2	14.8	33.2	23.9	11.3	14.8	1.9	31.6	34.8
Ontario, Canada	644	46.1	18.8	46.1	20.6	12.7	1.3	0.5	39.4	52.9
Quebec, Canada	551	48.8	17.9	48.8	21.7	10.0	1.6	0.0	43.6	54.1
Norway (8)	695	36.0	21.1	36.0	23.0	14.0	5.7	0.3	33.3	38.4
Abu Dhabi, UAE	698	44.2	17.4	44.2	19.5	16.9	2.1	0.0	48.0	40.7
Dubai, UAE	877	51.2	15.6	51.2	19.3	12.2	1.8	0.0	51.3	51.1
Florida, US	302	36.6	17.0	36.6	26.2	18.9	1.0	0.3	35.8	37.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_04 (S042110): Chemistry / Applying Type: MC Key: D
Label: Which nails rusted most

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	72.6	4.2	16.3	5.8	72.6	0.6	0.4	73.3	72.0
Bahrain	693	54.3	15.3	19.2	10.7	54.3	0.5	0.1	51.5	56.9
Botswana	858	71.1	6.3	15.3	6.2	71.1	0.8	0.4	74.4	67.6
Canada	1238	76.9	3.5	13.1	6.1	76.9	0.1	0.3	78.4	75.5
Chile	679	71.9	5.2	13.4	8.6	71.9	0.9	0.0	72.6	71.1
Chinese Taipei	820	87.7	3.2	7.5	1.5	87.7	0.2	0.0	86.6	88.8
Egypt	1105	60.5	12.3	17.4	8.7	60.5	1.0	0.0	61.5	59.4
England	678	69.5	7.4	15.3	7.1	69.5	0.6	0.1	69.4	69.7
Georgia	577	63.1	13.5	8.3	13.3	63.1	1.5	0.3	55.4	70.5
Hong Kong SAR	598	76.3	8.1	9.6	5.8	76.3	0.3	0.0	80.0	73.3
Hungary	706	77.5	4.1	10.0	7.7	77.5	0.8	0.0	76.5	78.4
Iran, Islamic Rep. of	863	69.7	8.3	9.2	11.6	69.7	1.1	0.1	73.1	66.5
Ireland	667	78.9	6.6	8.1	6.1	78.9	0.3	0.0	78.0	79.9
Israel	771	65.7	9.5	13.8	10.0	65.7	0.8	0.1	63.5	67.5
Italy	640	72.9	6.2	11.3	8.5	72.9	1.0	0.0	69.5	76.5
Japan	682	75.6	9.7	10.3	4.3	75.6	0.0	0.1	77.3	73.9
Jordan	1122	64.0	16.1	12.6	6.1	64.0	1.2	0.1	62.9	65.2
Kazakhstan	700	75.7	4.7	10.3	7.9	75.7	1.2	0.3	75.3	76.1
Korea, Rep. of	756	74.2	4.7	14.5	6.6	74.2	0.0	0.0	74.1	74.3
Kuwait	628	46.4	15.6	24.5	10.3	46.4	3.2	0.0	49.9	42.2
Lebanon	540	52.2	9.5	18.0	14.7	52.2	5.4	0.2	51.5	53.1
Lithuania	619	87.2	1.3	6.5	4.6	87.2	0.4	0.0	89.0	85.3
Malaysia	1392	77.3	7.9	10.5	4.0	77.3	0.2	0.1	75.5	79.1
Malta	541	62.8	6.1	21.3	8.8	62.8	0.4	0.7	63.2	62.4
Morocco	1856	62.0	6.4	17.1	11.8	62.0	2.5	0.2	65.3	59.4
New Zealand	1176	75.9	3.9	13.5	5.7	75.9	1.0	0.0	76.2	75.5
Norway	669	80.5	3.3	7.8	6.6	80.5	1.3	0.6	80.4	80.6
Oman	1257	44.8	15.7	24.3	13.6	44.8	1.4	0.2	42.6	46.8
Qatar	774	55.7	14.3	18.7	9.9	55.7	1.4	0.0	53.0	58.2
Russian Federation	685	89.7	1.0	4.7	3.6	89.7	0.9	0.1	89.9	89.5
Saudi Arabia	523	44.0	15.4	28.0	12.4	44.0	0.3	0.0	45.5	42.4
Singapore	872	76.5	9.0	9.8	4.7	76.5	0.0	0.0	75.2	77.7
Slovenia	608	75.2	5.0	9.3	7.0	75.2	3.5	0.0	76.5	74.1
South Africa	1790	55.1	12.1	23.4	8.6	55.1	0.4	0.4	51.6	58.7
Sweden	574	81.8	3.5	8.1	4.9	81.8	1.6	0.2	85.6	78.9
Thailand	920	68.1	5.0	19.8	6.5	68.1	0.7	0.0	70.3	65.2
Turkey	861	47.4	17.3	17.3	17.4	47.4	0.5	0.1	45.6	49.1
United Arab Emirates	2582	53.3	15.7	20.5	9.6	53.3	0.9	0.0	55.8	50.9
United States	1463	69.9	6.0	17.5	5.7	69.9	0.6	0.2	70.2	69.7
International Avg (n=39)	35957	68.3	8.3	14.3	8.0	68.3	1.0	0.1	68.4	68.3
Buenos Aires, Argentina	453	54.2	6.4	18.3	9.0	54.2	9.5	2.6	54.1	54.4
Ontario, Canada	645	74.1	3.0	15.1	7.2	74.1	0.1	0.5	79.1	69.4
Quebec, Canada	551	80.4	4.5	9.4	5.6	80.4	0.0	0.0	77.6	83.4
Norway (8)	695	76.3	3.2	12.0	7.4	76.3	0.9	0.3	74.6	77.9
Abu Dhabi, UAE	698	49.0	15.7	24.6	9.8	49.0	0.9	0.0	56.2	42.6
Dubai, UAE	877	58.0	17.2	14.1	9.8	58.0	1.0	0.0	55.7	60.6
Florida, US	302	60.7	10.5	20.9	7.1	60.7	0.3	0.5	63.7	58.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_05A (S042222A): Biology / Applying Type: CR 1 Point
Label: Life cycle stage monarch grows

COUNTRY	N	10 %	19 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	15.9	0.0	31.5	41.3	15.9	11.0	0.4	16.0	15.8
Bahrain	693	15.4	2.7	5.9	63.7	18.0	12.4	0.1	23.1	13.3
Botswana	859	4.8	0.9	9.9	76.3	5.8	7.6	0.5	4.5	7.0
Canada	1238	24.9	1.3	22.5	43.0	26.3	7.8	0.3	28.5	24.0
Chile	679	13.4	0.7	15.5	43.1	14.0	27.3	0.0	12.8	15.3
Chinese Taipei	820	10.4	0.0	6.5	73.0	10.4	10.1	0.0	8.7	12.1
Egypt	1105	4.8	0.2	8.7	59.7	5.0	26.6	0.0	5.6	4.1
England	678	30.2	0.4	12.6	40.7	30.6	15.8	0.3	33.9	26.8
Georgia	577	3.5	0.8	4.0	45.7	4.3	45.7	0.3	3.9	4.7
Hong Kong SAR	598	21.1	0.0	16.5	50.5	21.1	11.9	0.0	19.9	22.0
Hungary	706	29.9	0.0	12.7	48.0	29.9	9.3	0.0	27.2	32.8
Iran, Islamic Rep. of	863	17.6	0.0	8.7	57.3	17.6	16.1	0.3	17.9	17.3
Ireland	667	18.1	0.0	19.3	51.1	18.1	11.5	0.0	19.8	16.3
Israel	771	26.0	0.2	10.6	43.9	26.2	19.3	0.1	27.3	25.2
Italy	640	9.7	0.3	19.8	51.7	10.0	18.5	0.0	9.8	10.3
Japan	682	34.0	0.0	35.1	27.7	34.0	3.0	0.1	35.6	32.4
Jordan	1122	7.2	1.1	3.0	75.4	8.3	13.2	0.1	9.9	6.5
Kazakhstan	701	25.6	0.0	3.5	53.9	25.6	16.8	0.3	27.7	23.3
Korea, Rep. of	756	18.4	0.0	26.5	45.1	18.4	10.0	0.0	16.7	20.0
Kuwait	628	11.8	6.6	3.7	56.1	18.4	21.7	0.0	23.7	12.5
Lebanon	550	3.0	5.6	2.4	47.6	8.6	41.1	0.3	9.5	7.6
Lithuania	619	12.9	0.0	20.5	50.8	12.9	15.8	0.0	10.0	15.9
Malaysia	1392	15.3	0.5	18.4	53.6	15.8	12.1	0.1	16.1	15.6
Malta	541	19.8	0.2	11.4	50.3	20.0	17.6	0.7	20.2	19.8
Morocco	1858	5.9	0.1	8.3	62.8	6.0	22.7	0.3	6.6	5.4
New Zealand	1176	35.3	0.1	15.1	40.9	35.4	8.7	0.0	38.2	32.4
Norway	669	18.6	0.1	11.8	49.6	18.7	19.0	0.9	20.3	17.0
Oman	1256	13.1	2.7	12.3	61.7	15.8	10.0	0.2	19.7	12.4
Qatar	774	16.6	0.3	8.6	61.4	16.9	13.0	0.0	17.0	16.9
Russian Federation	685	21.1	0.4	7.5	50.9	21.5	20.0	0.1	20.5	22.4
Saudi Arabia	524	8.1	0.4	11.6	65.2	8.6	14.6	0.0	8.4	8.7
Singapore	872	56.1	0.1	23.2	18.2	56.3	2.3	0.0	58.9	53.9
Slovenia	608	24.0	0.2	4.6	56.3	24.2	14.8	0.0	30.5	18.7
South Africa	1790	4.3	1.1	3.1	81.4	5.4	9.7	0.4	5.7	5.2
Sweden	573	26.8	0.1	9.4	42.9	26.9	20.6	0.3	25.4	28.6
Thailand	920	12.9	0.6	20.4	49.9	13.5	16.1	0.1	12.8	14.3
Turkey	861	15.4	7.3	14.6	44.4	22.7	18.1	0.1	23.3	22.1
United Arab Emirates	2582	16.5	1.0	15.9	55.6	17.6	10.9	0.0	22.2	13.2
United States	1463	37.9	0.1	21.7	35.7	38.0	4.3	0.2	40.9	35.0
International Avg (n=39)	35970	18.1	0.9	13.3	52.0	19.0	15.6	0.2	20.0	18.1
Buenos Aires, Argentina	457	2.4	0.0	3.2	42.7	2.4	48.9	2.8	3.1	1.7
Ontario, Canada	645	22.2	1.5	21.6	46.7	23.8	7.4	0.5	26.4	21.1
Quebec, Canada	551	27.8	1.3	25.1	36.7	29.2	9.1	0.0	28.3	30.1
Norway (8)	695	16.3	0.2	5.6	52.9	16.5	24.8	0.3	17.0	15.9
Abu Dhabi, UAE	698	13.5	1.4	14.5	57.6	14.8	13.0	0.0	20.0	10.1
Dubai, UAE	877	22.7	0.7	18.8	50.1	23.4	7.7	0.0	30.6	15.4
Florida, US	302	31.7	0.0	19.9	40.1	31.7	7.8	0.5	34.5	29.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_05B (S042222B): Biology / Applying Type: CR 1 Point
Label: Life cycle stage monarch develops

COUNTRY	N	10 %	11 %	19 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	9.4	28.6	0.0	47.7	38.0	13.9	0.4	43.7	32.0
Bahrain	693	9.8	13.2	0.1	62.2	23.1	14.6	0.1	29.8	16.9
Botswana	859	2.4	6.9	0.8	78.9	10.1	10.0	1.0	10.6	9.6
Canada	1238	8.9	35.6	3.2	40.0	47.8	11.8	0.4	51.6	44.0
Chile	679	6.1	20.6	0.2	36.8	27.0	36.2	0.1	24.6	29.4
Chinese Taipei	820	1.0	12.9	0.0	72.6	13.9	13.5	0.0	13.8	14.0
Egypt	1105	0.8	1.0	0.3	68.0	2.2	29.8	0.1	3.0	1.1
England	678	9.1	31.2	0.7	39.0	40.9	19.8	0.3	47.9	33.0
Georgia	577	1.4	5.2	1.1	38.5	7.7	52.9	0.9	7.8	7.7
Hong Kong SAR	598	6.8	24.8	0.2	52.3	31.8	15.9	0.0	31.4	32.1
Hungary	706	5.5	30.2	0.0	50.9	35.7	13.4	0.0	36.6	34.8
Iran, Islamic Rep. of	863	5.2	24.8	0.1	42.3	30.1	27.3	0.3	32.2	28.2
Ireland	667	3.8	30.6	0.1	50.2	34.5	15.2	0.1	38.8	29.6
Israel	771	5.3	26.4	0.1	45.5	31.8	22.6	0.2	29.8	33.5
Italy	640	2.0	22.6	0.2	50.9	24.8	24.3	0.0	26.9	22.6
Japan	682	10.2	37.9	0.0	47.4	48.1	4.3	0.1	50.4	45.8
Jordan	1122	9.1	1.5	3.2	68.4	13.8	17.8	0.1	15.9	11.5
Kazakhstan	701	24.3	1.1	0.2	46.7	25.6	27.5	0.3	26.8	24.3
Korea, Rep. of	756	4.4	27.0	1.4	50.6	32.7	16.7	0.0	35.4	30.4
Kuwait	628	8.0	9.0	6.0	52.8	22.9	24.2	0.0	29.9	15.2
Lebanon	550	1.9	7.3	1.1	38.5	10.3	50.5	0.7	11.3	9.1
Lithuania	619	5.9	19.8	0.0	55.2	25.7	19.1	0.0	29.1	22.2
Malaysia	1392	5.1	25.1	0.4	50.6	30.5	18.8	0.2	32.0	29.0
Malta	541	3.3	26.2	0.9	45.2	30.5	23.7	0.7	33.1	27.9
Morocco	1854	6.5	1.2	0.1	58.3	7.7	33.5	0.4	8.7	7.0
New Zealand	1176	8.5	39.1	0.0	37.4	47.7	14.9	0.0	54.0	40.8
Norway	669	6.0	22.5	0.4	46.3	28.9	23.9	0.9	31.8	25.9
Oman	1257	5.6	8.4	2.1	70.6	16.1	12.9	0.3	18.4	14.1
Qatar	774	11.1	13.8	0.6	56.0	25.5	18.6	0.0	27.4	23.6
Russian Federation	685	11.0	17.7	0.3	47.0	29.1	23.7	0.3	29.3	28.8
Saudi Arabia	524	7.7	11.6	0.7	59.2	20.0	20.7	0.0	21.6	18.4
Singapore	872	16.5	57.6	3.3	19.3	77.4	3.3	0.0	77.2	77.6
Slovenia	608	14.0	20.8	0.4	45.2	35.1	19.7	0.0	39.9	30.8
South Africa	1790	3.1	3.5	0.8	79.0	7.4	13.1	0.5	6.9	8.0
Sweden	573	5.3	27.4	0.0	42.7	32.6	24.3	0.3	38.0	28.7
Thailand	920	3.6	22.8	1.2	53.3	27.7	18.8	0.3	29.9	24.9
Turkey	860	8.4	15.0	3.9	50.3	27.3	22.2	0.1	30.5	24.3
United Arab Emirates	2580	8.3	20.6	2.0	54.8	30.9	14.2	0.0	37.1	25.0
United States	1463	7.9	39.5	0.3	45.2	47.7	6.7	0.5	52.2	43.2
International Avg (n=39)	35964	7.0	20.3	0.9	51.2	28.2	20.4	0.2	30.6	25.8
Buenos Aires, Argentina	457	1.5	3.9	0.0	32.2	5.5	57.7	4.6	5.2	5.7
Ontario, Canada	645	9.3	31.4	3.2	44.3	43.8	11.2	0.7	48.4	39.4
Quebec, Canada	551	7.2	41.9	2.3	34.7	51.5	13.8	0.0	53.5	49.3
Norway (8)	695	4.4	19.5	0.8	44.0	24.7	30.9	0.4	31.6	18.2
Abu Dhabi, UAE	698	6.8	16.9	0.9	59.3	24.7	16.0	0.0	32.0	18.1
Dubai, UAE	875	11.6	28.5	2.6	46.4	42.6	11.0	0.0	49.6	34.8
Florida, US	302	5.3	32.9	0.3	49.8	38.5	11.2	0.5	43.4	34.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_05C (S042222C): Biology / Applying Type: MC Key: B
Label: Advantage for viceroy butterfly

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	78.5	6.1	78.5	6.7	6.6	1.7	0.4	80.4	76.5
Bahrain	693	60.4	13.3	60.4	16.8	6.9	2.5	0.1	63.3	57.7
Botswana	859	50.6	20.4	50.6	17.3	8.1	2.4	1.2	53.1	48.1
Canada	1238	79.3	4.5	79.3	3.7	9.6	2.3	0.6	79.2	79.3
Chile	679	75.0	7.9	75.0	8.2	5.1	3.4	0.4	78.8	71.0
Chinese Taipei	820	65.5	4.8	65.5	6.3	23.1	0.3	0.0	69.9	61.1
Egypt	1106	44.7	19.2	44.7	21.7	9.8	4.6	0.1	45.7	43.5
England	678	78.8	5.7	78.8	5.3	7.2	2.7	0.3	80.3	77.2
Georgia	577	58.4	10.7	58.4	13.5	5.5	11.1	0.9	61.8	55.1
Hong Kong SAR	598	59.0	5.0	59.0	10.6	24.3	1.1	0.0	65.8	53.4
Hungary	706	82.2	2.5	82.2	6.5	7.8	1.0	0.0	83.3	81.0
Iran, Islamic Rep. of	863	51.1	15.1	51.1	19.9	7.9	5.5	0.6	52.6	49.8
Ireland	667	79.7	7.0	79.7	6.8	4.2	2.2	0.1	82.6	76.4
Israel	771	72.4	9.5	72.4	9.4	5.7	2.9	0.2	75.7	69.6
Italy	640	77.2	5.6	77.2	6.2	6.7	4.3	0.0	79.4	74.9
Japan	682	75.6	6.1	75.6	4.5	13.4	0.3	0.1	76.6	74.6
Jordan	1122	54.3	18.0	54.3	17.4	7.9	2.3	0.1	55.6	52.9
Kazakhstan	701	45.0	17.0	45.0	13.1	20.4	4.2	0.3	45.5	44.5
Korea, Rep. of	756	83.9	3.2	83.9	5.7	7.1	0.2	0.0	84.8	83.1
Kuwait	628	58.0	15.6	58.0	15.8	5.6	4.9	0.1	65.0	50.6
Lebanon	544	34.8	19.5	34.8	18.0	9.1	17.8	0.9	31.8	38.4
Lithuania	619	76.7	6.2	76.7	5.9	6.7	4.5	0.0	79.6	73.7
Malaysia	1392	57.4	13.4	57.4	15.7	11.4	1.5	0.5	61.9	52.7
Malta	541	65.5	14.1	65.5	11.8	5.5	2.4	0.7	64.2	66.7
Morocco	1857	40.5	20.6	40.5	25.8	7.9	4.8	0.5	41.5	39.7
New Zealand	1176	75.7	6.6	75.7	6.5	7.9	3.2	0.0	78.9	72.3
Norway	669	71.0	3.1	71.0	5.9	15.2	3.8	1.1	75.7	66.2
Oman	1256	44.7	21.5	44.7	20.0	10.0	3.3	0.5	47.0	42.6
Qatar	774	60.9	16.3	60.9	14.5	6.7	1.4	0.3	64.7	57.1
Russian Federation	685	66.3	8.7	66.3	7.6	11.1	5.9	0.3	72.9	60.2
Saudi Arabia	523	50.1	22.0	50.1	18.4	8.0	1.5	0.0	49.2	50.9
Singapore	872	88.9	3.7	88.9	2.8	4.1	0.5	0.0	90.4	87.6
Slovenia	608	72.4	8.8	72.4	8.8	6.2	3.7	0.0	75.2	70.0
South Africa	1790	46.1	25.7	46.1	14.5	11.0	2.1	0.6	48.3	43.9
Sweden	574	66.8	9.0	66.8	10.7	7.0	6.2	0.3	69.5	65.4
Thailand	920	44.4	18.0	44.4	18.4	15.2	3.7	0.3	48.2	39.8
Turkey	860	65.7	16.0	65.7	10.0	6.1	2.2	0.1	65.7	65.6
United Arab Emirates	2582	64.3	14.6	64.3	11.8	7.2	2.1	0.0	67.1	61.7
United States	1463	80.3	4.4	80.3	5.2	7.6	1.8	0.6	84.8	75.9
International Avg (n=39)	35963	64.2	11.5	64.2	11.5	9.1	3.4	0.3	66.6	61.8
Buenos Aires, Argentina	442	53.7	6.6	53.7	8.5	7.5	19.5	4.1	60.6	46.8
Ontario, Canada	645	77.0	5.8	77.0	3.1	11.3	1.8	1.0	77.2	76.6
Quebec, Canada	551	84.4	2.9	84.4	4.6	7.0	1.2	0.0	85.6	83.1
Norway (8)	695	67.0	4.7	67.0	6.6	17.4	4.0	0.4	74.1	60.3
Abu Dhabi, UAE	698	62.2	14.9	62.2	14.0	6.7	2.2	0.0	66.1	58.8
Dubai, UAE	877	72.3	11.8	72.3	7.2	6.9	1.8	0.0	72.4	72.1
Florida, US	302	76.2	7.5	76.2	10.0	3.1	2.7	0.5	82.7	70.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_06 (S042065): Chemistry / Knowing Type: MC Key: C
Label: Good conductor of heat-electricity

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	76.5	12.5	3.5	76.5	5.5	1.5	0.5	73.5	79.8
Bahrain	693	82.1	6.6	5.6	82.1	5.5	0.1	0.1	81.4	82.8
Botswana	859	74.4	13.1	5.5	74.4	4.6	1.2	1.2	72.2	76.6
Canada	1238	69.9	20.6	4.3	69.9	4.3	0.1	0.8	64.0	75.8
Chile	679	75.5	9.3	8.1	75.5	4.8	1.8	0.6	68.9	82.3
Chinese Taipei	820	95.3	1.6	1.3	95.3	1.8	0.0	0.0	96.2	94.4
Egypt	1106	84.3	5.1	4.5	84.3	4.5	1.3	0.2	82.7	86.2
England	678	82.5	6.1	5.4	82.5	4.6	1.0	0.4	79.3	86.1
Georgia	577	53.9	12.1	8.4	53.9	23.5	1.0	1.1	52.1	55.6
Hong Kong SAR	598	91.8	3.6	2.1	91.8	1.9	0.6	0.0	90.4	93.1
Hungary	706	79.6	7.0	8.9	79.6	4.3	0.2	0.0	72.1	87.7
Iran, Islamic Rep. of	863	83.4	7.1	3.0	83.4	5.1	0.8	0.6	83.7	83.0
Ireland	667	78.1	13.4	3.0	78.1	4.2	1.2	0.1	74.6	82.0
Israel	771	90.5	3.6	2.0	90.5	2.8	0.9	0.2	90.0	90.9
Italy	640	78.2	14.8	4.3	78.2	1.7	1.0	0.0	73.3	83.4
Japan	682	86.0	6.3	5.4	86.0	1.8	0.3	0.1	85.6	86.5
Jordan	1122	85.5	4.5	3.9	85.5	5.0	0.7	0.4	85.4	85.7
Kazakhstan	701	80.6	7.9	4.8	80.6	5.0	1.4	0.3	76.7	84.9
Korea, Rep. of	756	92.2	2.0	2.0	92.2	3.5	0.2	0.0	92.4	92.1
Kuwait	620	80.2	6.3	7.1	80.2	4.8	1.1	0.5	82.1	77.9
Lebanon	543	63.6	16.4	5.4	63.6	10.9	2.8	0.9	59.9	67.8
Lithuania	619	69.3	17.4	6.5	69.3	4.7	2.1	0.0	63.0	75.6
Malaysia	1392	88.5	3.2	3.7	88.5	3.5	0.3	0.8	90.6	86.3
Malta	541	74.6	12.6	4.5	74.6	6.5	1.0	0.7	71.1	78.0
Morocco	1859	81.2	5.7	5.9	81.2	5.0	1.8	0.4	77.9	83.8
New Zealand	1176	72.8	16.0	5.2	72.8	5.0	0.9	0.0	69.6	76.2
Norway	669	86.4	4.3	4.5	86.4	2.0	1.6	1.2	86.0	86.9
Oman	1257	83.2	5.6	6.0	83.2	3.8	0.9	0.5	83.8	82.6
Qatar	774	79.1	9.4	5.0	79.1	5.6	0.7	0.3	79.0	79.2
Russian Federation	685	84.3	7.9	3.5	84.3	3.5	0.5	0.3	79.7	88.7
Saudi Arabia	524	74.4	10.4	7.6	74.4	6.9	0.6	0.0	73.7	75.2
Singapore	872	93.7	2.2	2.1	93.7	1.8	0.1	0.0	94.6	92.9
Slovenia	608	82.3	9.8	3.7	82.3	2.9	1.3	0.0	78.7	85.4
South Africa	1790	62.8	21.8	9.1	62.8	4.7	1.0	0.7	60.2	65.3
Sweden	574	87.5	5.3	2.2	87.5	2.3	2.4	0.3	85.1	89.9
Thailand	920	92.9	2.6	0.9	92.9	2.2	1.0	0.4	94.4	91.1
Turkey	861	83.8	2.9	6.1	83.8	6.9	0.2	0.1	80.6	86.9
United Arab Emirates	2582	81.1	7.5	6.1	81.1	4.6	0.7	0.1	81.8	80.4
United States	1463	79.1	10.4	4.1	79.1	4.7	1.1	0.6	74.8	83.4
International Avg (n=39)	35959	80.5	8.6	4.8	80.5	4.8	1.0	0.4	78.5	82.6
Buenos Aires, Argentina	453	59.2	9.4	12.3	59.2	8.0	6.9	4.2	51.3	67.2
Ontario, Canada	645	69.1	18.5	5.3	69.1	5.6	0.1	1.4	63.4	74.8
Quebec, Canada	551	69.3	25.6	3.2	69.3	1.8	0.1	0.0	61.2	77.7
Norway (8)	695	75.5	8.1	6.7	75.5	6.4	2.9	0.4	70.8	79.8
Abu Dhabi, UAE	698	78.5	6.7	7.6	78.5	6.4	0.5	0.2	81.4	76.0
Dubai, UAE	877	85.2	7.2	4.4	85.2	3.1	0.1	0.0	83.7	86.8
Florida, US	302	79.9	6.8	7.4	79.9	4.0	1.0	0.8	78.0	81.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_07 (S042280): Physics / Reasoning Type: MC Key: D
Label: Relative speed of sound

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	57.3	13.0	14.5	12.5	57.3	2.1	0.5	58.4	56.2
Bahrain	693	44.7	18.6	16.1	17.7	44.7	2.9	0.1	47.6	42.0
Botswana	859	30.3	20.0	25.8	20.4	30.3	1.6	1.8	28.2	32.5
Canada	1238	64.8	11.0	12.6	9.7	64.8	1.0	0.8	64.1	65.7
Chile	679	42.3	24.3	17.2	12.6	42.3	3.1	0.6	37.8	47.0
Chinese Taipei	820	72.6	7.7	13.6	5.9	72.6	0.3	0.0	71.4	73.7
Egypt	1106	28.3	25.4	22.2	22.2	28.3	1.7	0.2	30.3	26.0
England	678	60.4	10.5	15.1	12.0	60.4	1.6	0.4	58.5	62.7
Georgia	577	39.3	23.1	19.9	12.2	39.3	4.4	1.1	42.5	36.2
Hong Kong SAR	598	71.8	7.5	12.9	7.2	71.8	0.5	0.0	65.2	77.3
Hungary	706	68.2	7.5	15.4	8.4	68.2	0.5	0.0	63.2	73.5
Iran, Islamic Rep. of	863	45.7	15.1	15.1	21.0	45.7	2.4	0.8	45.8	45.5
Ireland	667	62.2	11.5	14.4	10.5	62.2	1.3	0.1	60.0	64.5
Israel	771	63.6	12.7	13.1	7.9	63.6	2.5	0.2	65.0	62.3
Italy	640	61.3	17.3	7.8	10.0	61.3	3.5	0.0	62.5	60.0
Japan	682	68.3	7.1	16.3	8.0	68.3	0.1	0.1	67.8	68.7
Jordan	1122	32.1	27.5	19.4	19.4	32.1	1.0	0.5	33.9	30.2
Kazakhstan	701	50.2	21.3	15.1	8.8	50.2	4.4	0.3	50.3	50.1
Korea, Rep. of	756	78.0	4.6	11.1	6.2	78.0	0.0	0.0	78.4	77.7
Kuwait	620	30.8	27.4	21.6	17.4	30.8	2.4	0.5	31.8	29.5
Lebanon	538	38.7	15.6	16.3	17.6	38.7	10.9	0.9	37.9	39.6
Lithuania	619	68.6	17.4	5.5	7.7	68.6	0.8	0.0	71.3	65.9
Malaysia	1392	48.0	10.8	25.0	14.3	48.0	1.1	0.8	48.9	47.1
Malta	541	53.3	19.6	16.1	9.6	53.3	0.6	0.7	54.9	51.8
Morocco	1859	34.5	21.8	22.4	17.0	34.5	3.9	0.4	35.9	33.4
New Zealand	1176	53.7	13.6	18.9	12.0	53.7	1.8	0.0	52.5	55.0
Norway	669	57.5	16.4	13.5	10.0	57.5	1.5	1.2	54.9	60.1
Oman	1257	39.9	23.5	19.6	14.3	39.9	2.1	0.5	43.2	37.1
Qatar	774	47.5	19.1	21.3	10.9	47.5	0.9	0.3	49.9	45.2
Russian Federation	685	73.3	10.8	4.5	7.9	73.3	3.1	0.4	70.3	76.1
Saudi Arabia	524	31.2	23.1	23.8	21.5	31.2	0.2	0.2	32.6	29.6
Singapore	872	82.0	5.5	8.1	4.1	82.0	0.2	0.0	82.1	82.0
Slovenia	608	68.7	11.8	9.8	9.1	68.7	0.6	0.0	67.8	69.4
South Africa	1790	27.8	17.1	28.3	24.4	27.8	1.6	0.8	27.2	28.4
Sweden	574	62.9	15.3	7.7	9.0	62.9	4.5	0.5	60.1	65.8
Thailand	920	44.5	15.2	22.4	14.7	44.5	2.6	0.5	48.4	39.8
Turkey	861	67.8	16.0	8.4	7.2	67.8	0.4	0.1	70.8	64.9
United Arab Emirates	2582	47.7	17.7	20.5	11.9	47.7	2.2	0.1	48.7	46.8
United States	1463	60.5	12.5	13.8	11.2	60.5	1.5	0.6	59.6	61.3
International Avg (n=39)	35954	53.3	15.8	16.0	12.4	53.3	2.0	0.4	53.3	53.3
Buenos Aires, Argentina	449	26.9	18.7	15.6	13.4	26.9	21.0	4.5	25.9	27.9
Ontario, Canada	645	63.8	10.2	13.6	10.1	63.8	0.9	1.4	63.8	64.2
Quebec, Canada	551	66.2	13.5	9.6	9.5	66.2	1.2	0.0	61.9	70.7
Norway (8)	695	49.8	15.1	17.5	12.7	49.8	4.4	0.5	51.4	48.3
Abu Dhabi, UAE	698	37.8	20.1	26.4	13.7	37.8	1.7	0.2	39.1	36.6
Dubai, UAE	877	64.4	11.6	15.9	6.8	64.4	1.3	0.0	62.8	66.1
Florida, US	302	51.7	14.5	16.2	13.3	51.7	3.0	1.3	51.5	51.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_08 (S042088): Chemistry / Applying Type: CR 1 Point
Label: Which solution is more dilute

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	41.4	34.5	19.5	41.4	4.0	0.5	46.3	36.2
Bahrain	693	36.4	31.6	28.5	36.4	3.4	0.1	44.2	29.1
Botswana	858	39.0	22.2	34.8	39.0	1.8	2.1	45.2	32.7
Canada	1238	52.1	25.5	17.2	52.1	4.4	0.9	57.8	46.4
Chile	679	43.3	20.6	25.0	43.3	10.5	0.7	47.8	38.5
Chinese Taipei	820	72.7	13.3	13.3	72.7	0.7	0.0	76.3	69.1
Egypt	1106	25.7	25.0	45.4	25.7	3.7	0.2	29.6	21.2
England	678	60.6	18.8	16.3	60.6	3.8	0.4	63.0	58.0
Georgia	577	30.4	28.9	33.2	30.4	6.5	1.1	30.9	29.9
Hong Kong SAR	598	65.2	12.7	21.5	65.2	0.5	0.0	73.4	58.4
Hungary	706	69.4	16.9	12.8	69.4	0.9	0.0	68.9	69.8
Iran, Islamic Rep. of	863	31.5	41.7	21.1	31.5	4.6	1.0	37.5	26.2
Ireland	667	63.0	17.4	18.5	63.0	0.9	0.1	72.4	52.6
Israel	771	36.4	37.1	22.3	36.4	3.6	0.5	36.0	36.8
Italy	640	54.8	22.4	15.6	54.8	7.1	0.1	62.8	46.2
Japan	682	79.4	5.5	14.1	79.4	0.8	0.1	84.6	74.3
Jordan	1122	36.4	4.8	57.9	36.4	0.4	0.5	44.2	27.7
Kazakhstan	701	58.2	14.9	23.8	58.2	2.9	0.3	65.4	50.0
Korea, Rep. of	756	48.4	41.0	9.7	48.4	0.8	0.0	51.2	46.0
Kuwait	628	26.5	38.7	30.9	26.5	3.5	0.5	32.7	20.1
Lebanon	550	37.2	25.3	30.1	37.2	6.4	1.0	42.5	31.2
Lithuania	619	68.4	13.0	18.0	68.4	0.6	0.0	79.0	57.6
Malaysia	1392	55.5	11.4	29.1	55.5	3.2	0.8	57.5	53.5
Malta	541	44.9	29.5	22.1	44.9	2.8	0.7	45.6	44.1
Morocco	1855	23.5	33.3	39.3	23.5	3.4	0.6	26.5	21.1
New Zealand	1176	44.2	33.6	18.0	44.2	4.2	0.0	47.3	40.8
Norway	669	60.6	18.8	17.5	60.6	1.5	1.6	67.0	54.1
Oman	1257	37.0	34.6	24.9	37.0	3.0	0.5	44.9	29.9
Qatar	773	33.8	29.0	34.3	33.8	2.6	0.3	37.8	29.9
Russian Federation	685	65.4	10.9	22.4	65.4	0.9	0.4	69.7	61.3
Saudi Arabia	524	30.7	43.1	23.8	30.7	1.9	0.5	40.5	20.4
Singapore	872	65.7	22.5	11.4	65.7	0.4	0.0	72.0	60.0
Slovenia	608	75.9	7.9	15.9	75.9	0.3	0.0	83.3	69.5
South Africa	1790	46.3	21.0	29.3	46.3	2.4	1.0	50.2	42.4
Sweden	572	70.5	15.1	10.8	70.5	3.0	0.6	74.8	67.0
Thailand	920	32.7	15.7	45.6	32.7	5.4	0.5	37.9	26.3
Turkey	861	45.1	33.8	18.2	45.1	2.7	0.3	53.8	36.8
United Arab Emirates	2582	37.6	34.6	24.6	37.6	3.1	0.1	45.0	30.5
United States	1463	37.8	36.1	23.1	37.8	2.2	0.9	42.8	32.8
International Avg (n=39)	35966	48.3	24.2	24.1	48.3	2.9	0.5	53.6	43.0
Buenos Aires, Argentina	455	28.6	24.0	24.2	28.6	16.7	6.4	31.3	25.9
Ontario, Canada	645	46.3	30.8	16.6	46.3	4.8	1.4	51.4	41.4
Quebec, Canada	551	64.9	15.5	17.8	64.9	1.8	0.0	70.2	59.4
Norway (8)	695	50.1	22.2	23.3	50.1	3.5	0.8	57.2	43.6
Abu Dhabi, UAE	698	31.0	39.1	25.9	31.0	3.8	0.2	40.6	22.3
Dubai, UAE	877	48.4	27.2	20.2	48.4	4.1	0.0	54.3	41.9
Florida, US	302	35.3	36.3	22.9	35.3	4.0	1.6	35.4	35.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_09 (S042218): Physics / Applying Type: MC Key: B
Label: Why does a balloon with helium rise

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	49.4	15.0	49.4	5.1	26.1	3.6	0.8	43.3	55.9
Bahrain	693	40.1	16.8	40.1	7.5	33.9	1.3	0.4	39.1	41.2
Botswana	859	44.3	15.6	44.3	8.8	26.3	2.3	2.8	42.3	46.3
Canada	1236	51.9	15.6	51.9	6.8	24.7	0.2	0.9	42.7	61.0
Chile	679	34.9	23.2	34.9	12.8	27.5	1.0	0.7	33.3	36.5
Chinese Taipei	820	74.4	14.8	74.4	1.0	9.4	0.5	0.0	69.8	78.9
Egypt	1106	53.0	20.5	53.0	9.7	14.6	2.0	0.2	50.6	56.0
England	678	49.8	18.0	49.8	2.8	28.1	0.7	0.6	48.2	51.5
Georgia	577	40.1	12.9	40.1	7.2	36.2	2.6	1.1	35.9	44.2
Hong Kong SAR	598	59.8	21.7	59.8	2.5	15.1	0.8	0.0	53.3	65.2
Hungary	706	66.6	15.7	66.6	2.8	14.0	0.8	0.0	56.6	77.3
Iran, Islamic Rep. of	863	66.9	2.7	66.9	4.2	23.2	1.8	1.2	64.5	69.2
Ireland	667	60.1	15.3	60.1	2.9	20.5	1.1	0.1	60.2	60.0
Israel	771	48.0	16.0	48.0	5.2	28.6	1.4	0.8	46.5	49.3
Italy	640	54.0	10.3	54.0	7.5	26.5	1.6	0.1	50.1	58.1
Japan	682	77.9	10.6	77.9	3.4	7.6	0.3	0.1	77.1	78.8
Jordan	1122	42.5	17.4	42.5	8.0	30.9	0.7	0.5	45.1	39.6
Kazakhstan	701	52.2	12.4	52.2	4.7	28.8	1.7	0.3	50.7	53.9
Korea, Rep. of	756	80.4	10.2	80.4	1.2	7.7	0.5	0.0	80.7	80.1
Kuwait	628	46.3	24.0	46.3	8.7	17.3	3.1	0.7	47.1	45.4
Lebanon	543	42.9	18.9	42.9	9.8	21.6	5.5	1.3	41.0	45.1
Lithuania	619	33.6	22.7	33.6	5.1	37.4	1.2	0.0	29.1	38.1
Malaysia	1392	45.3	15.9	45.3	5.0	31.2	1.4	1.2	47.8	42.6
Malta	541	49.4	16.3	49.4	7.4	24.6	1.3	0.9	45.4	53.3
Morocco	1857	30.8	14.7	30.8	12.2	39.3	2.5	0.6	28.7	32.5
New Zealand	1176	51.5	18.4	51.5	4.5	24.6	0.9	0.2	46.1	57.2
Norway	669	45.1	18.7	45.1	8.8	25.0	0.8	1.6	41.9	48.3
Oman	1253	49.6	21.7	49.6	8.6	17.8	1.7	0.5	54.7	45.0
Qatar	774	55.9	18.2	55.9	5.7	18.5	1.4	0.4	54.7	57.1
Russian Federation	685	60.8	12.3	60.8	6.7	18.0	1.9	0.4	60.9	60.7
Saudi Arabia	523	36.1	19.6	36.1	7.1	35.0	1.6	0.6	34.9	37.3
Singapore	872	76.9	14.6	76.9	2.4	5.8	0.4	0.0	75.6	78.0
Slovenia	608	69.6	17.0	69.6	2.7	8.7	2.0	0.0	71.7	67.8
South Africa	1790	29.1	17.6	29.1	13.6	35.8	2.5	1.3	25.2	33.0
Sweden	574	49.4	17.7	49.4	5.8	22.9	3.0	1.2	43.4	54.9
Thailand	920	33.2	17.4	33.2	3.5	43.0	2.2	0.6	32.4	34.3
Turkey	861	54.3	17.4	54.3	6.5	21.3	0.2	0.3	54.1	54.4
United Arab Emirates	2582	56.5	14.7	56.5	5.2	21.6	1.7	0.2	60.0	53.2
United States	1463	63.0	14.5	63.0	3.5	16.6	0.9	1.5	59.8	66.1
International Avg (n=39)	35958	51.9	16.3	51.9	6.1	23.5	1.6	0.6	49.9	54.0
Buenos Aires, Argentina	452	31.4	15.6	31.4	9.5	29.3	8.3	5.9	27.4	35.5
Ontario, Canada	644	53.4	14.3	53.4	5.4	25.3	0.0	1.6	42.2	64.3
Quebec, Canada	550	46.3	17.1	46.3	10.4	25.9	0.2	0.0	39.0	53.8
Norway (8)	695	43.5	18.3	43.5	9.4	26.1	1.8	0.8	37.5	49.0
Abu Dhabi, UAE	698	51.3	15.1	51.3	6.5	25.4	1.4	0.3	57.5	45.7
Dubai, UAE	877	60.5	12.0	60.5	3.7	21.8	1.7	0.2	59.8	61.3
Florida, US	302	53.0	19.7	53.0	5.8	17.0	2.9	1.6	50.3	55.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_10 (S042104): Chemistry / Reasoning Type: CR 1 Point
Label: Balance after HCL-NaOH are mixed

COUNTRY	N	10 %	11 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	24.9	1.1	32.3	15.4	23.3	26.1	2.0	0.9	27.3	24.9
Bahrain	693	16.1	0.0	35.2	13.4	32.1	16.2	2.8	0.4	19.8	12.8
Botswana	859	2.7	0.0	37.5	18.8	36.2	2.7	1.8	3.0	3.1	2.3
Canada	1238	23.0	2.0	35.1	12.2	21.9	24.9	4.8	0.9	27.1	22.7
Chile	679	20.9	0.0	26.6	12.0	31.4	20.9	8.5	0.7	19.9	22.0
Chinese Taipei	820	32.8	0.3	37.0	17.3	11.8	33.2	0.7	0.0	36.1	30.2
Egypt	1106	8.7	0.5	33.0	15.8	37.7	9.2	4.1	0.2	9.2	9.1
England	678	28.2	3.2	32.0	11.2	20.7	31.4	4.1	0.6	36.4	25.8
Georgia	577	16.3	0.0	35.3	19.4	20.3	16.3	7.4	1.2	18.5	14.3
Hong Kong SAR	598	23.0	1.0	19.2	25.1	30.7	24.0	1.0	0.0	28.1	20.6
Hungary	706	39.8	0.8	24.3	14.2	20.0	40.6	1.1	0.0	39.0	42.2
Iran, Islamic Rep. of	863	17.5	0.7	30.3	16.2	27.4	18.2	6.5	1.5	24.3	12.6
Ireland	667	23.0	0.6	33.0	12.6	29.5	23.5	1.3	0.1	22.3	24.9
Israel	771	32.8	1.8	22.2	18.8	19.7	34.5	3.8	1.0	35.4	33.8
Italy	640	16.0	0.0	57.9	10.1	10.5	16.0	5.4	0.1	15.3	16.7
Japan	682	49.1	5.1	16.4	13.2	15.1	54.3	1.0	0.1	61.6	46.9
Jordan	1122	14.2	0.1	17.9	6.2	59.6	14.3	1.5	0.5	15.8	12.6
Kazakhstan	701	49.2	0.5	23.6	7.0	14.9	49.8	4.5	0.3	50.6	48.9
Korea, Rep. of	756	42.2	0.1	28.1	12.3	15.8	42.3	1.4	0.1	46.4	38.7
Kuwait	628	10.9	0.1	17.4	20.1	46.2	11.0	4.6	0.7	12.5	9.0
Lebanon	549	18.5	0.6	43.3	17.0	13.2	19.1	6.1	1.4	20.3	17.6
Lithuania	619	24.4	0.1	33.4	14.3	25.8	24.5	2.0	0.0	30.6	18.4
Malaysia	1392	25.1	0.2	26.3	7.0	34.9	25.2	5.2	1.4	26.9	23.5
Malta	541	20.0	0.4	45.0	10.7	20.7	20.3	2.4	0.9	21.7	19.0
Morocco	1853	14.9	0.1	27.4	15.3	36.6	15.0	5.2	0.6	17.0	13.4
New Zealand	1176	26.0	0.1	30.1	13.1	27.4	26.0	2.9	0.4	28.9	22.9
Norway	669	25.1	0.7	26.7	18.5	24.0	25.8	3.4	1.6	32.3	19.2
Oman	1257	16.3	0.0	37.6	18.8	23.6	16.3	3.1	0.5	21.1	11.9
Qatar	774	12.2	0.6	28.1	17.7	39.8	12.8	1.2	0.4	14.8	10.9
Russian Federation	685	43.0	1.0	14.2	10.2	26.1	44.0	4.8	0.6	42.7	45.2
Saudi Arabia	524	11.3	0.2	33.2	24.8	28.1	11.5	1.7	0.6	14.0	8.9
Singapore	872	36.9	0.3	26.4	13.1	22.5	37.2	0.7	0.1	38.4	36.0
Slovenia	608	47.0	0.3	15.8	11.2	24.6	47.3	1.1	0.0	50.6	44.4
South Africa	1790	3.9	0.1	51.0	18.8	21.2	3.9	3.1	2.0	4.7	3.2
Sweden	573	26.3	4.4	20.9	17.7	25.2	30.8	4.2	1.2	40.6	23.0
Thailand	920	9.2	0.7	32.6	18.5	29.4	9.9	8.9	0.7	11.4	8.1
Turkey	861	24.0	0.9	31.6	18.4	21.0	24.9	3.9	0.3	26.6	23.2
United Arab Emirates	2580	14.2	0.5	41.9	16.5	23.8	14.7	2.9	0.2	16.1	13.4
United States	1463	26.2	0.7	40.0	12.5	17.3	27.0	1.6	1.5	25.7	28.2
International Avg (n=39)	35964	23.5	0.8	30.8	15.0	25.9	24.2	3.4	0.7	26.5	22.1
Buenos Aires, Argentina	456	7.9	0.0	15.1	0.0	45.5	7.9	24.9	6.6	5.6	10.1
Ontario, Canada	645	19.1	0.6	40.0	10.8	23.0	19.7	5.0	1.6	23.8	15.5
Quebec, Canada	551	33.8	5.2	24.9	14.5	17.5	39.0	4.2	0.0	37.0	41.1
Norway (8)	695	20.7	0.4	27.3	20.6	25.8	21.1	4.4	0.8	27.0	15.5
Abu Dhabi, UAE	698	12.9	0.4	38.0	19.9	25.4	13.4	3.0	0.3	18.9	8.4
Dubai, UAE	875	15.2	0.5	45.6	11.6	23.3	15.8	3.5	0.2	15.2	16.5
Florida, US	302	23.5	0.2	41.2	13.9	16.9	23.7	2.4	2.0	24.9	22.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_11 (S042064): Chemistry / Applying Type: CR 1 Point
Label: Why oil floats on top of water

COUNTRY	N	10 %	19 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	22.9	0.0	2.5	16.4	49.1	22.9	8.2	0.9	22.0	23.9
Bahrain	693	27.1	0.0	3.1	4.2	53.3	27.1	11.9	0.4	31.3	23.1
Botswana	858	19.4	0.0	2.8	5.8	62.1	19.4	6.7	3.2	19.1	19.8
Canada	1238	32.9	0.6	4.0	15.1	39.0	33.5	7.2	1.2	30.5	36.4
Chile	679	10.3	0.0	2.3	6.6	57.3	10.3	22.8	0.8	9.7	10.9
Chinese Taipei	820	52.4	0.0	1.4	6.9	33.1	52.4	6.2	0.0	52.5	52.3
Egypt	1106	52.4	0.1	0.9	0.5	30.6	52.5	15.2	0.2	54.0	50.6
England	678	23.7	0.4	3.4	6.0	56.0	24.2	9.9	0.6	24.9	23.4
Georgia	576	27.9	0.1	3.0	10.7	35.6	27.9	21.3	1.4	29.8	26.2
Hong Kong SAR	598	43.7	0.0	1.5	6.8	41.2	43.7	6.8	0.0	40.1	46.7
Hungary	706	41.1	0.0	1.2	5.7	45.1	41.1	6.9	0.0	37.6	45.0
Iran, Islamic Rep. of	863	17.6	0.0	4.6	35.2	32.3	17.6	8.4	2.0	17.6	17.5
Ireland	667	43.7	0.0	1.0	6.9	41.8	43.7	6.5	0.1	40.4	47.3
Israel	771	38.0	0.0	3.4	13.9	32.4	38.0	10.9	1.3	39.8	36.5
Italy	639	7.4	5.7	2.8	28.7	42.5	13.1	12.8	0.2	9.2	17.3
Japan	682	22.8	0.0	1.7	50.0	22.2	22.8	3.2	0.1	19.7	25.9
Jordan	1122	48.8	0.0	2.2	0.4	40.3	48.8	7.6	0.7	51.7	45.5
Kazakhstan	701	49.8	0.6	4.0	5.4	31.1	50.3	8.9	0.3	50.6	50.0
Korea, Rep. of	756	57.6	0.3	0.6	11.8	26.8	57.8	2.8	0.1	61.2	54.9
Kuwait	628	24.1	1.6	2.9	4.5	50.2	25.7	15.8	1.0	26.2	24.5
Lebanon	549	32.4	0.0	3.7	11.7	33.2	32.4	17.3	1.7	34.3	30.2
Lithuania	619	16.4	0.4	2.3	30.4	40.3	16.8	10.1	0.1	17.3	16.3
Malaysia	1392	50.3	0.0	1.0	1.6	35.4	50.3	9.8	1.8	52.2	48.4
Malta	541	45.2	0.0	0.7	7.9	33.9	45.2	11.4	0.9	45.3	45.1
Morocco	1858	14.7	2.9	3.7	28.7	36.2	17.5	12.9	1.1	19.0	16.4
New Zealand	1176	28.4	0.0	1.2	17.2	41.1	28.4	11.7	0.4	28.6	28.2
Norway	669	16.6	0.5	6.0	28.8	36.8	17.2	9.4	1.8	18.9	15.4
Oman	1257	45.6	0.3	2.7	5.7	37.9	45.9	7.2	0.7	55.2	37.6
Qatar	774	35.2	0.0	2.0	6.8	45.0	35.2	10.7	0.4	33.9	36.4
Russian Federation	685	39.7	0.0	8.0	6.3	33.6	39.7	11.6	0.8	37.4	41.9
Saudi Arabia	524	18.1	0.3	1.2	2.2	64.2	18.4	13.2	0.9	19.8	16.8
Singapore	872	63.7	0.0	0.8	4.5	28.8	63.7	2.2	0.1	64.2	63.2
Slovenia	608	33.9	14.3	4.7	6.7	37.9	48.2	2.6	0.0	48.4	48.0
South Africa	1790	6.7	0.1	1.6	3.1	78.2	6.9	8.1	2.2	6.6	7.2
Sweden	574	23.7	0.0	1.1	12.9	47.9	23.7	12.7	1.6	22.2	25.5
Thailand	920	26.7	0.0	0.8	6.7	52.4	26.7	12.7	0.8	28.9	23.8
Turkey	861	42.5	0.1	1.6	4.7	39.3	42.6	11.1	0.7	42.9	42.3
United Arab Emirates	2582	40.0	0.0	2.8	10.2	37.2	40.0	9.5	0.4	44.9	35.3
United States	1463	45.2	0.2	0.9	7.2	41.0	45.4	3.6	1.8	45.2	45.6
International Avg (n=39)	35969	33.0	0.7	2.5	11.4	41.6	33.8	9.9	0.8	34.2	33.4
Buenos Aires, Argentina	456	3.5	0.0	1.7	5.1	45.5	3.5	37.1	7.2	1.8	5.2
Ontario, Canada	645	37.6	0.9	3.9	6.6	41.4	38.5	7.8	1.8	37.0	39.8
Quebec, Canada	551	20.8	0.3	5.3	34.5	33.3	21.1	5.2	0.5	15.6	26.9
Norway (8)	695	19.6	0.1	2.9	28.7	36.3	19.7	11.0	1.4	18.1	21.2
Abu Dhabi, UAE	698	36.7	0.0	2.7	7.9	41.2	36.7	10.9	0.6	46.2	28.1
Dubai, UAE	877	41.6	0.0	3.8	12.0	35.6	41.6	6.8	0.3	44.9	38.0
Florida, US	302	42.0	0.0	0.9	4.2	44.3	42.0	6.5	2.0	42.6	41.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_12 (S042273): Physics / Applying Type: CR 1 Point
Label: Seeing lightning & hearing thunder

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	49.4	0.3	40.0	49.4	9.0	1.3	42.7	56.5
Bahrain	693	34.8	0.9	48.2	34.8	15.7	0.5	33.2	36.2
Botswana	858	17.0	1.6	65.5	17.0	10.7	5.2	12.9	21.1
Canada	1238	46.8	1.1	40.9	46.8	9.2	2.1	38.8	54.5
Chile	679	24.3	0.5	46.4	24.3	27.9	1.0	19.6	29.2
Chinese Taipei	820	73.1	2.9	18.4	73.1	5.5	0.0	69.9	76.4
Egypt	1106	29.9	2.5	47.0	29.9	20.2	0.3	30.2	29.6
England	678	63.0	0.6	25.8	63.0	9.5	1.1	61.0	65.3
Georgia	576	27.3	1.8	43.4	27.3	26.1	1.4	27.3	27.4
Hong Kong SAR	598	59.9	0.2	32.7	59.9	7.1	0.2	49.9	68.2
Hungary	706	51.5	0.4	32.7	51.5	15.5	0.0	39.5	64.3
Iran, Islamic Rep. of	863	22.6	0.1	58.6	22.6	16.6	2.1	16.8	27.9
Ireland	667	56.4	0.0	35.2	56.4	8.2	0.2	51.7	61.6
Israel	771	44.8	0.2	31.8	44.8	21.2	2.0	35.8	52.4
Italy	640	39.4	0.8	38.3	39.4	21.0	0.5	34.5	44.7
Japan	682	76.8	1.2	18.2	76.8	3.7	0.1	75.7	77.9
Jordan	1122	28.5	0.0	53.2	28.5	16.7	1.6	30.0	26.8
Kazakhstan	701	33.4	1.7	51.4	33.4	13.1	0.4	31.1	36.0
Korea, Rep. of	756	61.5	0.2	32.5	61.5	5.6	0.1	58.7	63.9
Kuwait	628	17.5	0.7	52.2	17.5	28.2	1.4	15.3	19.6
Lebanon	549	29.0	0.1	27.4	29.0	41.3	2.1	28.5	29.6
Lithuania	619	40.0	0.0	50.1	40.0	9.6	0.3	38.0	42.0
Malaysia	1392	25.5	0.2	50.4	25.5	21.1	2.7	20.7	30.4
Malta	541	57.8	1.7	27.6	57.8	11.8	1.1	58.7	57.0
Morocco	1859	21.0	0.8	41.1	21.0	35.8	1.4	18.1	23.3
New Zealand	1176	52.4	0.2	34.3	52.4	12.6	0.5	46.4	58.9
Norway	669	46.2	0.4	43.3	46.2	8.2	1.8	43.1	49.3
Oman	1257	33.7	6.1	45.3	33.7	14.2	0.7	35.7	32.0
Qatar	774	45.1	1.5	38.7	45.1	13.9	0.8	44.1	46.2
Russian Federation	685	48.4	0.8	32.3	48.4	17.7	0.8	44.6	51.9
Saudi Arabia	524	32.2	1.1	47.9	32.2	18.0	0.9	35.2	29.0
Singapore	872	78.7	0.0	18.7	78.7	2.5	0.1	76.5	80.7
Slovenia	608	71.2	0.2	19.5	71.2	9.1	0.0	68.9	73.2
South Africa	1790	9.3	0.3	71.7	9.3	15.9	2.8	5.8	12.8
Sweden	574	70.3	1.5	18.6	70.3	7.0	2.6	68.7	72.2
Thailand	920	30.5	0.0	47.8	30.5	20.6	1.0	28.5	33.2
Turkey	861	58.1	0.6	29.9	58.1	10.3	1.0	57.2	58.9
United Arab Emirates	2582	42.5	0.8	42.2	42.5	14.0	0.5	42.6	42.4
United States	1463	51.0	0.7	40.7	51.0	5.3	2.2	46.4	55.5
International Avg (n=39)	35971	43.6	0.9	39.5	43.6	14.9	1.1	40.6	46.6
Buenos Aires, Argentina	454	29.5	0.7	29.2	29.5	32.1	8.5	24.3	34.8
Ontario, Canada	645	47.4	0.5	37.5	47.4	11.5	3.0	41.3	53.2
Quebec, Canada	551	42.1	2.4	47.6	42.1	7.2	0.8	31.6	52.9
Norway (8)	695	36.5	0.8	51.1	36.5	10.0	1.7	33.6	39.1
Abu Dhabi, UAE	698	31.9	1.1	51.2	31.9	15.1	0.8	33.2	30.7
Dubai, UAE	877	61.6	0.9	27.9	61.6	9.3	0.4	58.7	64.8
Florida, US	302	43.2	0.0	45.1	43.2	9.7	2.0	40.8	45.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_13 (S042301): Earth Science / Knowing Type: CR 1 Point
Label: What causes an earthquake

COUNTRY	N	10 %	11 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	72.7	1.3	19.6	74.0	5.1	1.3	74.3	73.7
Bahrain	693	23.3	5.1	55.2	28.4	15.9	0.5	29.2	27.7
Botswana	858	9.6	5.8	66.3	15.3	11.9	6.6	16.5	14.0
Canada	1238	64.6	1.4	25.4	66.0	6.3	2.3	66.8	65.3
Chile	679	61.0	1.2	25.3	62.2	10.8	1.7	61.5	62.9
Chinese Taipei	820	93.1	0.4	3.6	93.5	2.9	0.0	93.4	93.6
Egypt	1106	6.3	8.5	64.2	14.8	20.7	0.3	14.7	14.8
England	678	75.7	0.8	15.4	76.5	7.0	1.1	77.9	74.9
Georgia	576	9.3	3.9	67.9	13.2	17.1	1.8	13.3	13.1
Hong Kong SAR	598	64.4	0.6	29.0	65.0	5.8	0.2	60.1	69.1
Hungary	706	39.7	6.7	31.7	46.4	21.9	0.0	42.0	51.2
Iran, Islamic Rep. of	863	8.0	9.3	64.0	17.3	16.0	2.7	16.6	17.9
Ireland	667	78.2	1.5	15.0	79.7	5.1	0.2	77.6	82.1
Israel	771	47.0	5.7	27.8	52.7	17.0	2.5	53.5	52.1
Italy	640	46.5	2.4	42.4	48.9	7.9	0.8	47.9	49.9
Japan	682	56.6	1.7	37.8	58.4	3.6	0.1	61.3	55.5
Jordan	1122	18.1	3.9	62.6	22.1	13.8	1.6	23.7	20.2
Kazakhstan	701	50.1	13.5	28.0	63.6	7.8	0.7	61.6	65.8
Korea, Rep. of	756	24.6	3.3	64.6	27.9	7.4	0.1	25.3	30.2
Kuwait	627	22.1	13.6	44.8	35.7	18.1	1.4	39.3	31.4
Lebanon	549	8.8	5.8	35.0	14.6	47.7	2.7	14.3	15.0
Lithuania	619	64.9	4.6	22.3	69.5	8.0	0.3	69.8	69.2
Malaysia	1392	12.3	2.7	63.3	15.1	18.3	3.4	15.2	14.9
Malta	541	46.1	3.7	35.4	49.7	13.7	1.1	48.6	50.8
Morocco	1850	24.2	12.3	39.5	36.4	22.6	1.6	38.0	35.2
New Zealand	1176	73.0	0.9	18.4	74.0	7.2	0.5	74.7	73.2
Norway	669	66.8	3.2	18.9	70.0	9.2	1.9	71.3	68.6
Oman	1255	33.7	6.1	50.1	39.8	9.4	0.7	43.6	36.4
Qatar	774	26.1	7.6	48.9	33.7	16.4	1.0	36.6	31.0
Russian Federation	685	67.6	3.9	16.4	71.5	11.3	0.8	71.9	71.1
Saudi Arabia	524	17.0	15.4	47.8	32.4	18.9	0.9	36.6	27.9
Singapore	872	52.4	4.1	37.5	56.5	5.9	0.1	53.3	59.4
Slovenia	608	77.2	0.6	14.1	77.8	8.2	0.0	78.4	77.2
South Africa	1790	13.6	2.3	64.9	16.0	16.0	3.1	16.9	15.1
Sweden	574	68.3	1.4	17.6	69.7	9.7	3.1	70.5	69.4
Thailand	920	39.9	4.5	44.7	44.3	9.9	1.0	47.7	40.1
Turkey	861	35.1	5.7	43.9	40.8	14.3	1.0	41.0	40.6
United Arab Emirates	2581	45.7	4.7	38.7	50.5	10.1	0.7	56.8	44.5
United States	1463	69.9	0.6	24.0	70.5	3.1	2.4	67.6	73.3
International Avg (n=39)	35958	43.9	4.6	37.7	48.6	12.4	1.3	49.0	48.2
Buenos Aires, Argentina	456	42.4	0.2	24.0	42.6	24.8	8.7	46.3	38.9
Ontario, Canada	645	56.6	1.0	31.2	57.7	7.8	3.3	60.2	55.3
Quebec, Canada	551	81.2	0.9	13.4	82.0	3.8	0.8	76.3	87.9
Norway (8)	695	65.2	2.0	22.8	67.2	8.3	1.8	64.6	69.6
Abu Dhabi, UAE	697	39.9	6.5	41.8	46.3	11.1	0.8	55.4	38.2
Dubai, UAE	877	54.9	3.4	32.7	58.3	8.4	0.5	60.9	55.5
Florida, US	302	58.9	0.0	29.2	58.9	9.8	2.0	61.1	56.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S07_14 (S042312): Earth Science / Knowing Type: MC Key: C
Label: What rotation of Earth causes

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	58.5	25.3	4.6	58.5	8.6	1.7	1.3	56.1	61.1
Bahrain	693	67.7	20.1	7.6	67.7	3.1	1.0	0.5	70.9	64.7
Botswana	859	47.5	14.1	24.3	47.5	5.2	1.2	7.8	43.1	52.0
Canada	1236	63.1	23.2	3.1	63.1	6.9	1.1	2.7	60.7	65.4
Chile	679	70.8	18.4	3.5	70.8	3.1	2.3	1.8	72.4	69.1
Chinese Taipei	820	62.8	23.1	5.0	62.8	8.3	0.8	0.0	65.9	59.7
Egypt	1106	62.5	16.1	14.7	62.5	5.2	1.2	0.3	60.6	64.8
England	678	67.8	22.7	2.6	67.8	4.4	1.3	1.2	65.5	70.4
Georgia	576	71.9	17.1	2.5	71.9	4.9	1.8	1.8	75.3	68.7
Hong Kong SAR	598	61.7	25.3	4.6	61.7	7.7	0.4	0.3	57.4	65.2
Hungary	706	82.1	14.4	0.9	82.1	1.3	1.3	0.0	80.9	83.4
Iran, Islamic Rep. of	863	59.8	25.7	4.9	59.8	6.1	0.7	2.9	62.9	57.1
Ireland	667	71.0	17.6	4.8	71.0	4.8	1.4	0.4	72.1	69.9
Israel	771	63.3	22.8	7.2	63.3	3.6	0.6	2.5	63.7	63.0
Italy	640	71.8	19.6	3.5	71.8	3.5	0.8	0.8	73.5	69.9
Japan	682	77.0	11.4	5.7	77.0	4.1	1.7	0.1	78.6	75.4
Jordan	1122	56.2	24.5	11.6	56.2	5.1	0.9	1.8	57.2	55.1
Kazakhstan	701	73.3	19.6	2.6	73.3	2.5	1.4	0.7	74.1	72.4
Korea, Rep. of	756	76.0	17.9	1.3	76.0	4.4	0.3	0.1	76.9	75.2
Kuwait	627	48.5	30.0	11.9	48.5	4.8	3.4	1.4	49.9	46.6
Lebanon	545	57.9	18.2	13.2	57.9	3.1	4.9	2.7	56.5	59.6
Lithuania	619	63.7	27.7	1.3	63.7	4.1	2.9	0.3	61.4	65.9
Malaysia	1392	62.4	24.3	4.7	62.4	4.5	0.7	3.4	63.1	61.6
Malta	541	59.9	24.8	8.3	59.9	4.8	1.1	1.1	60.6	59.2
Morocco	1856	61.7	11.3	15.7	61.7	6.4	3.2	1.6	62.2	61.4
New Zealand	1176	53.4	30.3	3.4	53.4	9.2	3.1	0.5	54.2	52.5
Norway	669	63.5	21.1	3.5	63.5	3.7	6.2	2.0	67.7	59.2
Oman	1248	56.5	23.3	10.9	56.5	8.0	0.6	0.7	54.9	57.9
Qatar	774	64.2	24.4	6.7	64.2	2.6	1.2	1.0	67.5	60.9
Russian Federation	685	79.4	14.1	0.7	79.4	2.7	2.2	0.8	80.8	78.1
Saudi Arabia	524	62.1	23.7	6.4	62.1	6.7	0.2	0.9	64.0	60.1
Singapore	872	72.3	14.0	6.7	72.3	5.9	0.6	0.4	73.3	71.4
Slovenia	608	77.0	17.0	0.3	77.0	2.9	2.7	0.0	75.6	78.3
South Africa	1790	63.5	14.8	12.2	63.5	5.1	1.2	3.3	61.6	65.3
Sweden	574	65.6	22.9	1.8	65.6	2.8	3.6	3.3	66.0	65.2
Thailand	920	66.2	13.4	12.5	66.2	6.1	0.7	1.2	68.8	63.0
Turkey	861	71.2	22.2	2.9	71.2	2.3	0.3	1.1	72.2	70.3
United Arab Emirates	2582	61.8	18.3	12.7	61.8	5.1	1.3	0.9	64.1	59.5
United States	1463	52.8	37.3	2.2	52.8	4.3	0.7	2.6	50.8	54.7
International Avg (n=39)	35953	64.8	20.8	6.5	64.8	4.8	1.6	1.4	65.2	64.4
Buenos Aires, Argentina	451	59.7	14.3	5.5	59.7	7.5	4.3	8.7	60.4	59.0
Ontario, Canada	645	64.7	19.3	3.9	64.7	7.3	0.9	3.9	59.7	69.4
Quebec, Canada	549	62.5	29.1	2.4	62.5	3.5	1.8	0.8	60.6	64.4
Norway (8)	695	63.2	25.1	3.7	63.2	3.3	2.9	1.9	61.1	65.1
Abu Dhabi, UAE	698	56.7	19.7	16.2	56.7	5.1	1.5	0.8	61.8	52.0
Dubai, UAE	877	69.7	17.2	6.0	69.7	4.9	1.0	1.1	69.4	70.1
Florida, US	302	46.0	42.0	3.9	46.0	4.1	1.6	2.4	38.1	53.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_15 (S042217): Earth Science / Knowing Type: MC Key: B
Label: Shadow of a tree on a sunny day

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	53.8	3.2	53.8	19.6	20.9	1.1	1.4	47.8	60.0
Bahrain	693	33.3	10.0	33.3	24.8	29.5	1.7	0.6	29.9	36.4
Botswana	858	24.7	7.1	24.7	35.0	22.1	2.7	8.4	18.8	30.7
Canada	1236	44.9	3.1	44.9	22.7	24.6	1.7	3.0	36.9	53.1
Chile	679	32.4	5.8	32.4	29.7	27.8	2.4	1.8	27.5	37.5
Chinese Taipei	820	85.4	1.3	85.4	9.0	4.1	0.3	0.0	85.7	85.1
Egypt	1106	25.2	14.3	25.2	23.5	34.4	2.1	0.4	25.2	25.2
England	678	47.4	2.1	47.4	22.9	25.6	0.6	1.4	46.2	48.8
Georgia	576	42.3	4.2	42.3	26.1	21.5	4.1	1.8	33.7	50.6
Hong Kong SAR	598	68.9	2.5	68.9	17.0	11.0	0.2	0.3	63.6	73.3
Hungary	706	60.1	2.9	60.1	17.2	19.2	0.6	0.0	54.1	66.4
Iran, Islamic Rep. of	863	46.5	5.9	46.5	21.9	20.0	2.8	2.9	41.8	50.8
Ireland	667	44.3	4.0	44.3	24.7	25.7	0.7	0.6	39.0	50.2
Israel	771	33.1	8.0	33.1	26.5	28.3	1.4	2.7	25.8	39.3
Italy	640	47.4	2.9	47.4	27.8	19.5	1.6	0.9	41.5	53.5
Japan	682	59.2	1.1	59.2	28.5	10.2	0.9	0.1	57.1	61.4
Jordan	1122	20.3	14.2	20.3	27.2	34.7	1.9	1.8	17.2	23.7
Kazakhstan	701	29.1	3.7	29.1	45.8	19.0	1.7	0.7	27.5	30.9
Korea, Rep. of	756	66.3	0.0	66.3	24.3	9.0	0.3	0.1	66.7	66.1
Kuwait	627	30.0	12.0	30.0	22.4	30.5	3.6	1.4	25.8	34.2
Lebanon	546	19.3	13.7	19.3	24.3	31.5	8.1	3.0	19.1	19.6
Lithuania	619	43.5	2.6	43.5	33.1	18.0	2.5	0.3	37.0	50.1
Malaysia	1392	53.0	4.7	53.0	17.6	19.8	1.2	3.6	53.9	52.1
Malta	541	36.0	7.4	36.0	26.8	27.2	1.5	1.1	33.2	38.7
Morocco	1856	26.0	12.2	26.0	23.8	33.1	3.1	1.8	20.8	30.1
New Zealand	1176	48.7	3.0	48.7	21.7	22.6	3.4	0.5	44.3	53.4
Norway	669	52.3	4.1	52.3	22.6	17.3	1.7	2.0	49.3	55.4
Oman	1253	28.0	11.9	28.0	25.0	32.7	1.5	0.8	21.3	34.0
Qatar	774	31.5	8.0	31.5	22.8	34.5	2.2	1.0	26.9	35.9
Russian Federation	685	46.0	2.0	46.0	23.6	24.4	3.3	0.8	35.9	55.6
Saudi Arabia	524	27.4	11.3	27.4	25.7	33.7	1.1	0.9	21.1	34.0
Singapore	872	74.9	1.4	74.9	9.9	12.6	0.6	0.5	73.1	76.6
Slovenia	608	72.1	0.6	72.1	12.9	12.9	1.5	0.0	67.2	76.4
South Africa	1790	27.8	12.6	27.8	29.8	22.6	3.8	3.3	26.7	28.9
Sweden	574	63.3	1.9	63.3	15.7	12.7	2.4	3.9	61.7	65.1
Thailand	920	46.4	6.5	46.4	19.5	24.6	1.7	1.3	48.1	44.2
Turkey	861	48.2	4.3	48.2	21.8	24.0	0.6	1.1	43.2	53.0
United Arab Emirates	2582	33.2	10.3	33.2	22.0	31.6	1.9	1.0	26.9	39.3
United States	1463	46.2	2.4	46.2	24.8	22.8	1.2	2.7	40.6	51.6
International Avg (n=39)	35958	44.1	5.9	44.1	23.6	23.0	1.9	1.5	40.1	48.0
Buenos Aires, Argentina	451	29.4	3.8	29.4	24.0	27.4	6.3	9.1	22.9	36.1
Ontario, Canada	643	47.3	3.2	47.3	20.4	24.0	1.2	3.9	40.0	54.6
Quebec, Canada	551	39.9	3.7	39.9	26.5	26.0	2.1	1.7	32.6	47.5
Norway (8)	695	51.0	4.7	51.0	23.5	16.5	2.4	1.9	52.2	49.8
Abu Dhabi, UAE	698	31.7	11.0	31.7	21.9	33.4	1.2	0.8	25.5	37.4
Dubai, UAE	877	40.3	5.8	40.3	21.2	29.3	2.0	1.5	38.5	42.3
Florida, US	302	32.3	3.8	32.3	33.0	26.0	1.6	3.3	24.6	39.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S07_16 (S042406): Earth Science / Applying Type: CR 1 Point
Label: Direction river flows

COUNTRY	N	10 %	70 %	71 %	72 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1474	34.4	27.6	0.9	5.4	26.7	34.4	3.4	1.6	30.5	38.5
Bahrain	693	13.5	13.7	2.3	7.6	50.0	13.5	11.7	1.2	13.8	13.2
Botswana	859	4.0	12.0	1.9	11.0	51.7	4.0	9.3	10.1	3.7	4.4
Canada	1238	34.6	23.5	0.9	1.8	30.6	34.6	5.1	3.5	29.3	39.8
Chile	679	26.1	21.2	2.0	3.3	29.0	26.1	16.0	2.4	19.0	33.6
Chinese Taipei	820	71.1	13.0	2.2	0.7	9.1	71.1	3.9	0.0	68.2	74.1
Egypt	1105	5.5	12.1	2.9	2.2	47.0	5.5	29.4	0.8	4.6	6.6
England	678	33.9	31.5	0.8	2.9	23.4	33.9	5.9	1.5	30.7	37.5
Georgia	577	27.0	13.1	9.3	2.9	18.8	27.0	24.9	4.0	24.1	29.9
Hong Kong SAR	598	55.8	19.4	3.0	2.6	14.3	55.8	4.5	0.3	49.9	60.8
Hungary	706	48.7	28.1	1.3	1.9	13.9	48.7	6.0	0.1	42.7	55.1
Iran, Islamic Rep. of	863	25.4	13.6	2.9	8.4	33.3	25.4	12.6	3.8	24.0	26.6
Ireland	667	46.5	28.8	0.2	3.1	18.3	46.5	2.5	0.6	39.4	54.3
Israel	771	31.1	16.3	1.5	5.2	31.3	31.1	11.7	3.0	23.2	37.8
Italy	640	29.9	41.2	3.3	1.5	11.7	29.9	11.1	1.3	25.2	34.8
Japan	682	57.7	32.7	0.5	0.3	6.2	57.7	2.4	0.1	56.3	59.2
Jordan	1122	6.8	3.3	0.6	1.6	71.2	6.8	14.3	2.3	6.9	6.7
Kazakhstan	701	53.0	4.7	9.3	2.9	18.0	53.0	11.4	0.7	53.3	52.7
Korea, Rep. of	756	43.5	16.9	2.5	0.4	32.6	43.5	3.9	0.3	37.5	48.6
Kuwait	628	10.1	13.4	2.4	8.2	41.0	10.1	23.2	1.7	11.6	8.1
Lebanon	550	14.5	16.4	1.2	1.7	20.5	14.5	40.2	5.6	14.2	14.8
Lithuania	619	35.0	32.5	0.5	0.8	25.7	35.0	5.2	0.4	30.6	39.5
Malaysia	1392	15.0	24.5	2.4	7.5	31.0	15.0	15.2	4.3	12.0	18.1
Malta	541	31.4	26.4	0.5	3.6	29.9	31.4	7.1	1.1	25.0	37.4
Morocco	1845	15.9	8.2	1.8	5.7	44.8	15.9	21.4	2.2	14.4	17.2
New Zealand	1176	41.2	26.0	0.9	1.2	25.0	41.2	5.0	0.5	37.3	45.5
Norway	669	56.2	19.4	1.4	5.0	10.9	56.2	5.1	2.0	57.7	54.7
Oman	1255	16.7	20.3	3.4	6.0	40.7	16.7	11.8	1.2	16.1	17.3
Qatar	774	9.6	19.8	3.3	11.4	40.1	9.6	14.7	1.2	8.1	11.0
Russian Federation	685	47.8	25.2	2.8	1.7	12.9	47.8	8.7	1.0	47.0	48.6
Saudi Arabia	524	10.7	15.9	2.3	9.1	42.3	10.7	18.9	0.9	15.3	5.7
Singapore	872	44.6	20.0	0.3	0.9	30.7	44.6	2.8	0.6	37.9	50.8
Slovenia	608	53.0	25.5	1.1	3.3	13.3	53.0	3.7	0.1	53.1	52.9
South Africa	1789	7.1	14.9	1.9	13.8	47.5	7.1	10.0	4.7	5.5	8.6
Sweden	574	49.0	15.5	1.6	3.3	19.2	49.0	7.2	4.1	42.6	54.8
Thailand	920	18.3	4.1	9.9	5.5	39.8	18.3	20.1	2.2	18.9	17.5
Turkey	861	15.3	17.1	3.9	17.7	35.0	15.3	9.7	1.3	13.1	17.4
United Arab Emirates	2582	15.5	22.3	2.4	5.1	41.6	15.5	11.9	1.2	14.9	16.1
United States	1463	34.9	33.5	0.2	1.9	24.8	34.9	2.1	2.7	28.7	40.9
International Avg (n=39)	35956	30.5	19.8	2.4	4.6	29.6	30.5	11.1	2.0	27.9	33.1
Buenos Aires, Argentina	456	9.2	16.9	0.4	2.7	32.8	9.2	27.0	11.1	7.9	10.5
Ontario, Canada	645	30.4	23.2	0.5	1.7	34.8	30.4	5.3	4.1	25.8	34.7
Quebec, Canada	551	38.3	25.1	0.7	1.9	26.6	38.3	5.2	2.1	28.0	48.9
Norway (8)	695	43.3	24.8	1.1	6.8	17.9	43.3	3.7	2.4	44.8	41.8
Abu Dhabi, UAE	698	13.2	19.7	2.5	4.6	45.6	13.2	13.6	0.8	13.3	13.0
Dubai, UAE	877	21.8	30.1	1.9	5.9	31.1	21.8	7.3	1.8	18.7	25.3
Florida, US	302	21.5	32.9	0.0	2.0	35.3	21.5	4.9	3.5	15.6	26.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S08_01 (S062055): Chemistry / Knowing Type: MC Key: A
Label: Process absorbing light energy

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	70.4	70.4	17.5	3.4	7.8	1.0	0.0	71.0	69.7
Bahrain	692	77.2	77.2	11.7	3.5	6.9	0.7	0.0	78.7	75.9
Botswana	855	54.5	54.5	34.8	3.8	5.6	1.3	0.0	54.5	54.4
Canada	1251	76.2	76.2	11.8	2.3	8.4	0.9	0.3	74.0	78.5
Chile	670	69.5	69.5	11.4	4.5	11.4	3.0	0.1	72.9	66.1
Chinese Taipei	807	95.2	95.2	2.3	1.7	0.7	0.1	0.0	95.8	94.7
Egypt	1105	69.7	69.7	10.9	6.3	11.1	1.9	0.1	71.4	67.6
England	676	82.5	82.5	10.0	1.1	5.7	0.7	0.0	80.9	84.0
Georgia	580	65.1	65.1	23.9	6.6	3.2	1.1	0.1	65.3	64.9
Hong Kong SAR	596	93.9	93.9	1.9	1.1	2.2	0.9	0.0	93.4	94.4
Hungary	696	59.8	59.8	29.3	7.0	3.3	0.7	0.0	58.0	61.5
Iran, Islamic Rep. of	860	56.6	56.6	29.5	8.7	3.1	1.5	0.6	56.5	56.7
Ireland	673	76.1	76.1	14.2	1.5	7.0	1.0	0.0	72.9	79.8
Israel	775	77.2	77.2	11.7	4.8	4.4	2.0	0.0	77.2	77.1
Italy	649	75.2	75.2	11.7	4.3	6.5	2.4	0.0	74.0	76.4
Japan	676	86.4	86.4	9.6	1.7	2.4	0.0	0.0	81.2	91.6
Jordan	1110	66.8	66.8	12.7	7.8	10.5	2.1	0.1	67.5	66.1
Kazakhstan	695	70.9	70.9	14.5	8.8	5.1	0.7	0.0	74.6	67.3
Korea, Rep. of	749	95.0	95.0	3.1	1.0	0.8	0.1	0.0	95.8	94.2
Kuwait	630	76.5	76.5	11.0	6.7	3.1	2.3	0.4	83.3	69.8
Lebanon	552	61.7	61.7	17.7	6.6	7.2	5.4	1.4	65.3	57.7
Lithuania	613	81.3	81.3	6.2	4.5	5.6	2.3	0.0	81.3	81.4
Malaysia	1389	54.2	54.2	30.4	7.5	7.7	0.1	0.1	59.0	49.5
Malta	547	64.2	64.2	19.8	5.4	9.1	1.3	0.2	64.5	63.9
Morocco	1864	68.5	68.5	12.6	6.5	8.9	3.0	0.4	67.8	69.3
New Zealand	1193	75.0	75.0	14.8	2.9	6.2	1.1	0.0	74.2	75.8
Norway	660	72.2	72.2	11.7	4.7	10.0	1.4	0.0	73.2	71.3
Oman	1271	79.5	79.5	9.9	5.8	3.2	1.6	0.1	85.0	74.6
Qatar	769	75.8	75.8	11.1	4.4	6.9	1.6	0.2	80.4	70.9
Russian Federation	690	81.1	81.1	6.3	1.9	9.5	1.1	0.0	80.6	81.5
Saudi Arabia	532	74.9	74.9	12.1	6.7	5.1	1.2	0.0	77.2	72.5
Singapore	870	90.1	90.1	5.0	1.3	3.6	0.1	0.0	90.0	90.1
Slovenia	617	49.3	49.3	29.9	5.8	12.1	2.8	0.0	45.4	53.0
South Africa	1799	53.3	53.3	29.1	5.8	10.4	1.3	0.1	56.3	50.5
Sweden	575	71.3	71.3	10.5	4.8	10.1	3.3	0.1	69.3	74.1
Thailand	927	76.4	76.4	10.4	8.4	4.1	0.7	0.0	75.4	77.6
Turkey	865	52.2	52.2	19.7	13.9	13.7	0.6	0.0	48.8	55.2
United Arab Emirates	2581	77.3	77.3	11.6	4.4	5.5	1.0	0.1	80.4	74.4
United States	1455	79.9	79.9	10.5	2.5	5.5	1.3	0.4	76.1	83.6
International Avg (n=39)	35971	72.6	72.6	14.4	4.9	6.5	1.4	0.1	73.1	72.2
Buenos Aires, Argentina	453	67.0	67.0	6.9	5.5	6.8	9.9	3.9	64.5	69.9
Ontario, Canada	646	72.7	72.7	13.4	2.2	10.8	0.9	0.0	69.6	76.0
Quebec, Canada	565	81.7	81.7	8.8	2.5	5.7	1.3	0.0	81.9	81.5
Norway (8)	695	67.7	67.7	13.6	6.0	10.2	2.4	0.1	67.9	67.5
Abu Dhabi, UAE	702	74.6	74.6	11.5	4.9	7.5	1.6	0.0	81.8	67.9
Dubai, UAE	874	81.0	81.0	11.0	3.1	4.4	0.6	0.0	80.2	81.8
Florida, US	304	75.5	75.5	13.8	4.8	3.8	1.8	0.3	74.8	76.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S08_02 (S062007): Chemistry / Applying Type: MC Key: D
Label: Models of carbon dioxide

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	49.9	17.4	20.7	10.3	49.9	1.5	0.2	51.3	48.4
Bahrain	692	38.3	14.6	22.2	22.8	38.3	2.2	0.0	41.2	35.6
Botswana	855	23.4	22.6	33.8	17.9	23.4	2.3	0.0	24.2	22.7
Canada	1250	47.1	21.1	20.6	9.9	47.1	1.0	0.4	46.1	48.1
Chile	670	46.1	18.5	17.2	13.9	46.1	4.2	0.1	45.4	46.8
Chinese Taipei	807	80.3	10.1	5.0	4.7	80.3	0.0	0.0	82.0	78.7
Egypt	1105	42.3	21.6	17.8	16.4	42.3	1.8	0.1	45.0	39.2
England	676	55.5	15.6	18.8	9.7	55.5	0.4	0.0	56.9	54.1
Georgia	580	47.1	22.2	17.9	8.3	47.1	4.3	0.1	50.6	44.2
Hong Kong SAR	596	44.0	23.5	17.2	14.4	44.0	0.8	0.1	38.4	48.8
Hungary	696	63.7	11.4	15.4	8.5	63.7	1.1	0.0	63.0	64.3
Iran, Islamic Rep. of	860	33.4	26.7	19.3	16.3	33.4	3.6	0.6	36.6	30.6
Ireland	673	42.4	15.0	28.2	12.4	42.4	2.0	0.0	40.1	45.0
Israel	775	56.4	13.0	21.3	8.0	56.4	1.3	0.0	56.9	56.0
Italy	649	41.5	15.7	25.9	14.0	41.5	2.8	0.0	36.5	46.4
Japan	676	82.6	15.4	1.1	0.6	82.6	0.3	0.0	82.2	83.0
Jordan	1110	39.9	23.6	17.2	16.7	39.9	2.5	0.1	42.2	37.4
Kazakhstan	695	58.9	11.8	22.4	5.4	58.9	1.2	0.2	54.8	63.0
Korea, Rep. of	749	61.3	16.8	12.6	8.8	61.3	0.5	0.0	59.4	63.1
Kuwait	630	41.6	25.8	17.4	10.9	41.6	3.7	0.7	44.7	38.1
Lebanon	548	46.2	14.1	24.1	8.5	46.2	5.7	1.4	44.6	47.9
Lithuania	613	58.0	15.6	17.4	7.6	58.0	1.4	0.0	62.0	53.8
Malaysia	1389	37.2	21.0	24.7	16.2	37.2	0.8	0.1	39.4	35.0
Malta	547	44.5	17.6	23.4	12.9	44.5	1.5	0.2	42.3	46.6
Morocco	1864	53.7	32.5	4.8	6.4	53.7	2.2	0.4	56.0	51.8
New Zealand	1193	46.4	19.5	19.8	12.7	46.4	1.6	0.0	43.9	49.2
Norway	660	59.9	17.9	13.7	7.4	59.9	1.2	0.0	61.4	58.4
Oman	1271	30.1	17.3	30.0	19.6	30.1	2.9	0.1	32.5	28.1
Qatar	769	38.2	17.5	28.2	14.1	38.2	1.8	0.2	33.7	42.9
Russian Federation	690	61.1	9.5	22.2	5.4	61.1	1.8	0.0	60.1	62.0
Saudi Arabia	532	25.6	21.2	21.1	29.4	25.6	2.8	0.0	24.5	26.8
Singapore	870	73.1	9.6	10.7	6.5	73.1	0.1	0.0	73.9	72.4
Slovenia	617	74.0	12.1	8.0	4.7	74.0	1.2	0.0	73.1	74.8
South Africa	1799	32.1	29.9	22.5	13.1	32.1	2.1	0.2	31.5	32.8
Sweden	575	66.4	20.9	5.0	4.3	66.4	3.3	0.1	70.8	62.5
Thailand	927	37.2	16.8	26.9	16.1	37.2	2.9	0.1	35.1	39.6
Turkey	865	53.9	17.0	16.5	11.7	53.9	0.9	0.0	60.8	47.6
United Arab Emirates	2581	50.2	14.2	21.3	12.6	50.2	1.5	0.1	51.8	48.7
United States	1455	58.2	16.0	15.4	8.6	58.2	1.2	0.6	54.5	61.8
International Avg (n=39)	35966	49.8	18.0	18.7	11.5	49.8	1.9	0.2	50.0	49.6
Buenos Aires, Argentina	449	25.2	22.7	20.9	8.9	25.2	18.3	4.0	22.8	27.9
Ontario, Canada	646	37.0	24.0	24.5	13.3	37.0	1.1	0.1	32.5	41.6
Quebec, Canada	564	68.1	16.7	10.4	3.7	68.1	1.0	0.0	68.9	67.3
Norway (8)	695	51.8	21.2	17.9	7.3	51.8	1.6	0.2	52.9	50.9
Abu Dhabi, UAE	702	48.8	15.3	18.9	15.5	48.8	1.5	0.0	54.7	43.3
Dubai, UAE	874	56.7	12.8	20.6	8.4	56.7	1.4	0.0	56.7	56.8
Florida, US	304	48.4	24.5	18.2	7.9	48.4	0.7	0.3	50.7	46.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S08_03 (S062275): Chemistry / Applying Type: CR 1 Point
Label: Separate oil and water

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	44.4	53.5	44.4	1.8	0.2	46.5	42.3
Bahrain	692	19.4	79.5	19.4	1.2	0.0	22.2	16.8
Botswana	855	14.7	83.7	14.7	1.6	0.0	14.5	14.9
Canada	1252	46.0	52.1	46.0	1.5	0.4	45.5	46.6
Chile	670	14.7	81.5	14.7	3.5	0.3	14.4	15.1
Chinese Taipei	807	60.3	39.2	60.3	0.5	0.0	62.4	58.4
Egypt	1105	19.1	78.1	19.1	2.6	0.1	20.1	17.9
England	676	31.9	66.5	31.9	1.6	0.0	34.7	29.1
Georgia	580	25.7	70.7	25.7	3.5	0.1	29.5	22.5
Hong Kong SAR	596	20.3	79.2	20.3	0.3	0.1	18.1	22.2
Hungary	696	44.0	54.6	44.0	1.4	0.0	41.5	46.3
Iran, Islamic Rep. of	860	39.8	58.6	39.8	1.0	0.6	39.5	40.1
Ireland	673	44.5	53.9	44.5	1.6	0.0	48.7	39.8
Israel	775	47.7	50.1	47.7	2.2	0.0	50.1	45.6
Italy	649	35.6	61.1	35.6	3.3	0.0	35.1	36.1
Japan	676	49.2	50.2	49.2	0.6	0.0	52.0	46.4
Jordan	1110	24.9	74.0	24.9	1.0	0.1	27.4	22.1
Kazakhstan	695	34.3	62.2	34.3	3.3	0.2	36.4	32.2
Korea, Rep. of	749	50.1	49.4	50.1	0.5	0.0	54.8	45.7
Kuwait	630	14.0	83.2	14.0	2.1	0.7	17.7	10.3
Lebanon	555	26.5	65.3	26.5	6.8	1.4	27.4	25.6
Lithuania	613	22.8	75.9	22.8	1.3	0.0	21.9	23.7
Malaysia	1389	28.7	67.8	28.7	3.4	0.1	27.7	29.7
Malta	547	35.8	62.8	35.8	1.3	0.2	37.8	33.8
Morocco	1864	17.3	79.0	17.3	3.3	0.4	16.5	18.0
New Zealand	1193	42.5	55.1	42.5	2.4	0.0	46.2	38.4
Norway	660	43.2	55.0	43.2	1.9	0.0	45.7	40.7
Oman	1271	28.4	70.4	28.4	1.1	0.1	32.3	24.9
Qatar	769	24.2	74.4	24.2	1.2	0.2	27.7	20.4
Russian Federation	690	30.6	66.4	30.6	3.0	0.0	25.0	35.6
Saudi Arabia	533	15.1	82.6	15.1	2.3	0.0	17.9	12.2
Singapore	870	58.1	41.4	58.1	0.5	0.0	57.9	58.3
Slovenia	617	48.8	50.8	48.8	0.3	0.0	49.4	48.3
South Africa	1800	9.7	88.7	9.7	1.5	0.2	9.0	10.4
Sweden	575	41.3	56.5	41.3	2.1	0.1	44.7	38.5
Thailand	927	31.7	64.8	31.7	3.3	0.1	36.1	26.7
Turkey	865	45.2	52.4	45.2	2.3	0.0	45.9	44.6
United Arab Emirates	2581	25.9	71.8	25.9	2.1	0.1	31.2	20.9
United States	1455	38.6	59.4	38.6	1.4	0.6	40.4	36.7
International Avg (n=39)	35977	33.2	64.7	33.2	2.0	0.2	34.7	31.7
Buenos Aires, Argentina	461	7.5	70.1	7.5	17.2	5.2	8.1	6.9
Ontario, Canada	646	43.7	54.8	43.7	1.4	0.1	44.2	43.2
Quebec, Canada	566	50.0	48.1	50.0	1.9	0.0	49.1	50.9
Norway (8)	695	37.5	60.8	37.5	1.6	0.2	40.3	34.9
Abu Dhabi, UAE	702	22.0	76.0	22.0	2.1	0.0	33.1	11.8
Dubai, UAE	874	34.8	63.4	34.8	1.8	0.0	35.0	34.5
Florida, US	304	29.5	68.6	29.5	1.6	0.3	36.1	23.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S08_04 (S062225): Biology / Applying Type: MC Key: A
Label: Bone structure of forelimbs

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	45.7	45.7	33.4	10.1	9.9	0.8	0.2	41.3	50.2
Bahrain	692	32.4	32.4	29.4	27.3	9.2	1.7	0.0	31.0	33.7
Botswana	855	22.5	22.5	35.4	30.0	10.3	1.8	0.0	19.0	25.9
Canada	1248	41.8	41.8	33.8	11.3	10.3	2.3	0.5	38.4	45.3
Chile	670	51.9	51.9	18.0	14.8	13.4	1.7	0.3	49.3	54.6
Chinese Taipei	807	52.3	52.3	15.3	23.6	8.6	0.2	0.0	47.2	57.0
Egypt	1105	22.9	22.9	20.0	38.4	15.5	2.8	0.5	20.4	25.8
England	676	50.8	50.8	30.5	8.5	9.6	0.6	0.0	44.0	57.6
Georgia	580	25.9	25.9	42.8	20.1	7.7	3.4	0.1	23.0	28.4
Hong Kong SAR	596	36.5	36.5	30.7	22.0	10.5	0.2	0.1	28.9	42.9
Hungary	696	34.4	34.4	24.4	26.9	13.2	1.2	0.0	33.7	35.0
Iran, Islamic Rep. of	860	22.9	22.9	24.6	33.0	16.2	2.8	0.6	21.2	24.4
Ireland	673	45.3	45.3	27.7	13.5	12.8	0.7	0.0	48.3	41.9
Israel	775	36.1	36.1	34.7	20.3	7.3	1.6	0.0	34.5	37.5
Italy	649	52.6	52.6	12.5	12.5	21.2	1.2	0.0	53.9	51.2
Japan	676	67.7	67.7	18.2	5.5	8.2	0.5	0.0	69.6	65.7
Jordan	1110	33.7	33.7	20.1	28.4	14.9	2.8	0.1	30.9	36.8
Kazakhstan	695	52.1	52.1	23.4	16.5	5.9	1.7	0.4	53.0	51.3
Korea, Rep. of	749	36.3	36.3	30.9	17.2	15.1	0.4	0.0	35.3	37.3
Kuwait	629	35.0	35.0	20.8	24.4	13.5	5.5	0.8	41.3	28.6
Lebanon	551	25.1	25.1	21.6	23.6	15.6	12.1	2.0	25.9	24.1
Lithuania	613	33.5	33.5	25.7	22.0	17.6	1.1	0.0	34.4	32.6
Malaysia	1389	16.4	16.4	35.5	37.9	9.2	1.0	0.1	13.5	19.1
Malta	547	46.7	46.7	21.6	15.0	15.0	1.5	0.2	47.7	45.9
Morocco	1862	30.1	30.1	19.5	31.2	15.9	2.9	0.4	29.5	30.7
New Zealand	1193	46.3	46.3	31.3	8.9	12.1	1.4	0.0	43.8	49.0
Norway	660	48.1	48.1	20.5	8.6	21.6	1.1	0.0	46.9	49.2
Oman	1271	17.4	17.4	33.8	33.1	12.7	3.0	0.1	15.2	19.4
Qatar	769	33.2	33.2	28.4	27.2	8.2	3.0	0.2	33.9	32.4
Russian Federation	690	45.3	45.3	20.0	18.3	15.1	1.4	0.0	40.0	50.0
Saudi Arabia	0	.	.	.	.	.	.	.	.	.
Singapore	870	41.8	41.8	29.0	20.2	8.5	0.5	0.0	35.0	47.9
Slovenia	617	36.2	36.2	25.2	17.0	19.2	2.3	0.0	31.8	40.4
South Africa	1800	31.0	31.0	32.9	19.3	15.4	1.2	0.2	29.8	32.3
Sweden	577	34.0	34.0	19.7	26.3	17.1	2.9	0.1	29.8	37.9
Thailand	927	21.1	21.1	38.3	24.6	14.8	1.1	0.1	21.5	20.7
Turkey	865	35.4	35.4	26.6	31.1	6.8	0.1	0.0	38.2	32.8
United Arab Emirates	1192	42.0	42.0	26.4	22.2	7.6	1.9	0.0	39.3	44.5
United States	1455	60.8	60.8	26.1	6.1	5.6	0.8	0.6	58.6	62.9
International Avg (n=38)	34046	38.0	38.0	26.5	21.0	12.4	1.9	0.2	36.3	39.6
Buenos Aires, Argentina	454	30.0	30.0	13.0	16.4	22.2	14.0	4.5	30.5	29.4
Ontario, Canada	644	44.9	44.9	35.0	7.6	9.7	2.6	0.2	40.8	49.4
Quebec, Canada	565	34.5	34.5	34.6	18.4	11.0	1.4	0.0	30.1	39.2
Norway (8)	695	47.9	47.9	20.5	9.9	19.6	2.0	0.2	48.4	47.4
Abu Dhabi, UAE	224	40.0	40.0	23.6	27.6	6.8	1.9	0.0	38.2	41.5
Dubai, UAE	641	45.8	45.8	27.6	18.7	6.6	1.4	0.0	41.1	50.9
Florida, US	304	57.4	57.4	30.3	9.3	2.0	0.7	0.3	57.9	57.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S08_05 (S062111): Biology / Applying Type: CR 2 Points
Label: Group food in balanced diet

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	33.3	28.5	34.4	61.8	33.3	3.6	0.2	38.7	27.8
Bahrain	692	17.4	18.4	62.0	35.8	17.4	2.2	0.0	22.3	12.9
Botswana	855	34.1	20.9	44.3	55.1	34.1	0.7	0.0	40.0	28.3
Canada	1252	26.5	30.4	41.1	56.9	26.5	1.4	0.7	32.3	20.6
Chile	674	11.7	18.7	61.4	30.4	11.7	7.8	0.4	12.7	10.7
Chinese Taipei	807	32.0	40.5	26.4	72.5	32.0	1.2	0.0	33.4	30.7
Egypt	1105	12.0	20.1	58.6	32.1	12.0	8.7	0.6	15.9	7.5
England	676	51.6	23.5	24.1	75.1	51.6	0.8	0.0	58.7	44.4
Georgia	580	12.1	18.2	56.9	30.4	12.1	12.7	0.1	15.8	9.1
Hong Kong SAR	596	27.8	45.7	24.3	73.5	27.8	2.1	0.1	30.2	25.7
Hungary	696	30.1	42.8	24.2	72.9	30.1	2.9	0.0	36.6	24.0
Iran, Islamic Rep. of	860	8.2	20.3	68.0	28.4	8.2	2.7	0.8	9.2	7.3
Ireland	673	43.2	26.4	30.0	69.5	43.2	0.2	0.3	52.2	33.1
Israel	775	21.0	41.4	34.1	62.4	21.0	3.2	0.3	20.3	21.6
Italy	649	31.0	29.2	35.5	60.2	31.0	4.3	0.0	38.3	24.0
Japan	676	52.0	34.5	12.4	86.5	52.0	1.0	0.2	53.1	50.8
Jordan	1110	9.1	20.8	67.9	29.9	9.1	2.1	0.1	10.5	7.6
Kazakhstan	695	30.5	35.4	27.8	65.8	30.5	5.9	0.5	29.5	31.4
Korea, Rep. of	749	34.5	41.3	22.4	75.7	34.5	1.9	0.0	38.1	31.2
Kuwait	630	4.5	18.0	68.7	22.5	4.5	7.7	1.1	5.2	3.4
Lebanon	554	9.6	15.2	61.1	24.8	9.6	11.7	2.4	9.9	9.3
Lithuania	613	16.0	31.6	50.0	47.5	16.0	2.5	0.0	19.7	12.1
Malaysia	1389	37.6	19.0	41.7	56.6	37.6	1.6	0.1	45.2	30.4
Malta	547	32.8	28.8	36.2	61.6	32.8	2.0	0.2	39.8	26.0
Morocco	1862	6.0	17.1	73.8	23.0	6.0	2.7	0.5	7.6	4.6
New Zealand	1193	40.9	24.5	31.7	65.4	40.9	2.9	0.0	43.8	37.6
Norway	660	27.6	25.7	42.8	53.2	27.6	3.9	0.0	33.7	21.7
Oman	1261	23.5	24.0	50.5	47.5	23.5	1.9	0.1	30.6	17.1
Qatar	769	16.0	25.4	55.1	41.4	16.0	3.3	0.2	18.9	12.9
Russian Federation	688	32.2	25.9	37.1	58.1	32.2	4.8	0.0	37.6	27.4
Saudi Arabia	533	5.3	14.3	75.2	19.7	5.3	5.1	0.0	9.4	1.1
Singapore	870	35.0	36.9	27.2	71.9	35.0	0.8	0.0	37.6	32.6
Slovenia	617	28.5	41.2	28.7	69.7	28.5	1.5	0.0	34.9	22.5
South Africa	1800	15.2	23.0	60.7	38.2	15.2	0.8	0.3	17.6	12.9
Sweden	577	61.2	14.6	21.5	75.8	61.2	2.6	0.1	69.6	53.6
Thailand	927	32.5	24.3	39.5	56.8	32.5	3.4	0.4	39.1	24.8
Turkey	865	13.1	34.6	49.6	47.7	13.1	2.7	0.0	16.1	10.4
United Arab Emirates	2581	19.7	23.4	54.1	43.1	19.7	2.7	0.2	22.8	16.7
United States	1455	25.5	30.1	42.5	55.6	25.5	1.2	0.7	28.5	22.5
International Avg (n=39)	35968	25.7	27.0	43.7	52.7	25.7	3.4	0.3	29.6	21.7
Buenos Aires, Argentina	461	4.7	14.1	48.4	18.8	4.7	25.6	7.2	4.9	4.5
Ontario, Canada	646	28.6	34.9	35.2	63.5	28.6	1.0	0.3	34.7	22.3
Quebec, Canada	566	21.9	24.3	51.3	46.3	21.9	2.3	0.2	28.0	15.6
Norway (8)	695	16.6	21.2	56.8	37.8	16.6	5.3	0.2	20.6	13.0
Abu Dhabi, UAE	702	16.7	17.5	62.1	34.1	16.7	3.8	0.0	20.1	13.6
Dubai, UAE	874	28.5	28.9	40.7	57.4	28.5	1.8	0.0	29.8	27.1
Florida, US	304	15.6	21.6	60.3	37.2	15.6	2.1	0.5	16.1	15.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S08_06A (S062116A): Biology / Reasoning Type: CR 1 Point
Label: Population change years 2-3

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	42.6	44.2	42.6	13.0	0.2	44.0	41.1
Bahrain	692	26.0	52.9	26.0	21.1	0.0	28.8	23.3
Botswana	855	8.2	84.5	8.2	7.2	0.1	8.6	7.8
Canada	1252	48.3	40.7	48.3	10.2	0.8	48.2	48.5
Chile	674	25.3	43.6	25.3	30.4	0.7	24.1	26.4
Chinese Taipei	807	76.4	16.0	76.4	7.6	0.0	81.3	72.0
Egypt	1105	15.4	48.4	15.4	35.5	0.6	17.8	12.7
England	676	48.0	45.1	48.0	6.9	0.0	50.9	45.1
Georgia	580	20.1	22.1	20.1	57.6	0.3	19.7	20.5
Hong Kong SAR	596	50.9	39.1	50.9	9.8	0.3	51.2	50.6
Hungary	696	49.0	36.0	49.0	15.0	0.0	51.3	46.8
Iran, Islamic Rep. of	860	21.8	44.2	21.8	33.2	0.8	22.8	20.8
Ireland	673	50.8	40.1	50.8	8.7	0.4	51.8	49.7
Israel	775	38.1	43.9	38.1	17.5	0.5	40.2	36.3
Italy	649	36.1	36.1	36.1	27.8	0.0	38.1	34.1
Japan	676	64.2	28.1	64.2	7.5	0.2	63.8	64.7
Jordan	1110	14.8	60.3	14.8	24.9	0.1	18.1	11.2
Kazakhstan	695	34.1	32.1	34.1	33.4	0.5	37.4	30.9
Korea, Rep. of	749	69.1	20.9	69.1	10.0	0.0	71.2	67.1
Kuwait	627	19.2	42.5	19.2	36.9	1.4	21.3	17.0
Lebanon	554	17.7	32.9	17.7	46.9	2.4	16.6	18.9
Lithuania	613	46.0	33.5	46.0	20.5	0.0	45.6	46.4
Malaysia	1389	15.1	65.2	15.1	19.5	0.2	18.3	12.0
Malta	547	27.1	56.6	27.1	15.8	0.4	28.1	26.1
Morocco	1863	20.5	34.0	20.5	44.8	0.6	22.5	18.7
New Zealand	1193	45.8	43.3	45.8	10.9	0.0	46.8	44.6
Norway	660	42.1	43.3	42.1	14.5	0.1	44.2	40.0
Oman	1259	23.0	59.7	23.0	17.1	0.2	27.5	19.1
Qatar	769	28.8	48.0	28.8	23.0	0.2	31.7	25.8
Russian Federation	689	49.3	24.0	49.3	26.7	0.0	47.9	50.5
Saudi Arabia	533	22.8	46.9	22.8	30.1	0.2	26.8	18.7
Singapore	870	51.3	45.2	51.3	3.5	0.0	57.0	46.1
Slovenia	617	40.0	44.2	40.0	15.8	0.0	47.7	32.7
South Africa	1800	6.0	78.0	6.0	15.7	0.3	4.8	7.2
Sweden	577	49.2	33.5	49.2	17.2	0.1	48.2	50.8
Thailand	927	22.3	54.4	22.3	22.8	0.5	24.2	20.2
Turkey	865	27.8	52.2	27.8	20.0	0.0	31.7	24.3
United Arab Emirates	2580	30.1	51.8	30.1	17.9	0.2	36.4	24.1
United States	1455	37.0	57.9	37.0	4.3	0.9	39.2	34.8
International Avg (n=39)	35964	34.9	44.2	34.9	20.5	0.3	36.8	33.0
Buenos Aires, Argentina	461	15.9	20.6	15.9	56.2	7.3	16.9	14.8
Ontario, Canada	646	49.7	41.1	49.7	8.8	0.5	47.7	51.9
Quebec, Canada	566	47.4	41.9	47.4	10.3	0.4	47.5	47.3
Norway (8)	695	38.3	47.5	38.3	14.0	0.2	40.4	36.5
Abu Dhabi, UAE	701	26.6	53.2	26.6	20.2	0.0	36.3	17.7
Dubai, UAE	874	37.4	49.6	37.4	13.0	0.0	41.6	32.8
Florida, US	304	29.1	62.1	29.1	8.3	0.5	26.9	31.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S08_06B (S062116B): Biology / Reasoning Type: CR 1 Point
Label: Population change years 4-6

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	32.2	53.7	32.2	13.9	0.2	33.3	31.1
Bahrain	692	15.3	60.5	15.3	24.2	0.0	16.5	14.1
Botswana	855	8.1	82.9	8.1	8.5	0.6	9.3	6.9
Canada	1252	40.5	46.4	40.5	12.3	0.8	41.9	39.1
Chile	674	15.8	46.3	15.8	36.7	1.2	16.3	15.2
Chinese Taipei	807	44.2	46.9	44.2	8.9	0.0	46.5	42.1
Egypt	1105	6.7	50.2	6.7	42.5	0.6	8.1	5.0
England	676	39.3	49.2	39.3	11.5	0.0	38.1	40.5
Georgia	580	8.9	28.7	8.9	62.0	0.5	7.9	9.7
Hong Kong SAR	596	32.4	56.2	32.4	11.2	0.3	26.1	37.7
Hungary	696	40.0	41.2	40.0	18.7	0.0	40.5	39.5
Iran, Islamic Rep. of	860	11.0	46.5	11.0	41.6	1.0	10.6	11.3
Ireland	673	39.5	47.1	39.5	13.0	0.4	39.4	39.7
Israel	775	35.9	43.7	35.9	19.7	0.7	37.2	34.8
Italy	648	23.0	41.4	23.0	35.3	0.3	24.8	21.2
Japan	676	36.3	53.9	36.3	9.6	0.2	35.5	37.1
Jordan	1110	8.9	64.6	8.9	26.2	0.3	12.7	4.8
Kazakhstan	695	20.8	40.4	20.8	38.3	0.6	23.9	17.8
Korea, Rep. of	749	30.4	54.6	30.4	15.0	0.0	31.3	29.7
Kuwait	627	15.4	43.3	15.4	38.9	2.3	19.8	10.6
Lebanon	555	11.0	32.7	11.0	53.2	3.1	10.2	12.0
Lithuania	613	22.3	52.2	22.3	25.5	0.0	21.0	23.7
Malaysia	1389	24.5	52.7	24.5	22.5	0.4	28.1	21.0
Malta	547	23.9	56.0	23.9	19.7	0.4	26.7	21.1
Morocco	1863	8.4	41.8	8.4	49.0	0.9	10.1	6.8
New Zealand	1193	33.1	52.9	33.1	13.9	0.1	34.9	31.1
Norway	660	36.2	46.6	36.2	16.8	0.4	40.8	31.7
Oman	1261	17.4	64.7	17.4	17.5	0.4	23.0	12.4
Qatar	769	17.9	55.5	17.9	26.1	0.5	21.9	13.7
Russian Federation	689	23.9	43.4	23.9	32.7	0.0	21.6	25.9
Saudi Arabia	533	13.0	51.1	13.0	35.7	0.2	16.5	9.4
Singapore	870	47.1	49.2	47.1	3.7	0.0	48.5	45.8
Slovenia	617	29.1	48.3	29.1	22.6	0.0	33.4	25.1
South Africa	1800	4.5	77.1	4.5	17.1	1.3	4.3	4.7
Sweden	577	47.7	32.2	47.7	19.6	0.5	48.5	47.5
Thailand	927	11.0	61.5	11.0	26.5	1.0	11.7	10.1
Turkey	865	11.4	61.4	11.4	27.0	0.1	13.8	9.3
United Arab Emirates	2580	19.7	60.0	19.7	20.1	0.2	21.5	18.0
United States	1455	33.8	60.4	33.8	4.5	1.2	33.2	34.4
International Avg (n=39)	35966	24.1	51.2	24.1	24.1	0.5	25.4	22.9
Buenos Aires, Argentina	461	8.6	21.3	8.6	62.6	7.5	9.0	8.0
Ontario, Canada	646	42.5	46.7	42.5	10.4	0.5	45.8	39.1
Quebec, Canada	566	39.1	46.8	39.1	13.7	0.5	36.9	41.3
Norway (8)	695	30.7	51.1	30.7	18.0	0.2	34.6	27.3
Abu Dhabi, UAE	701	13.9	64.3	13.9	21.8	0.0	15.4	12.5
Dubai, UAE	874	34.0	51.3	34.0	14.7	0.0	37.5	30.1
Florida, US	304	25.6	64.2	25.6	9.0	1.1	25.2	26.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S08_06C (S062116C): Biology / Reasoning Type: CR 1 Point
Label: Species of fish best survive

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	11.3	84.1	11.3	4.4	0.3	11.0	11.6
Bahrain	692	20.8	73.7	20.8	5.5	0.0	22.5	19.1
Botswana	855	8.0	88.8	8.0	2.3	0.9	8.7	7.3
Canada	1252	29.7	63.0	29.7	6.2	1.1	30.3	29.2
Chile	674	20.5	67.7	20.5	10.6	1.2	20.0	21.0
Chinese Taipei	807	28.1	71.0	28.1	0.9	0.0	30.0	26.3
Egypt	1105	10.1	80.0	10.1	9.3	0.6	10.3	9.8
England	676	23.1	73.8	23.1	2.9	0.1	22.2	24.0
Georgia	580	10.5	69.5	10.5	19.5	0.5	10.0	10.9
Hong Kong SAR	596	19.8	77.4	19.8	2.5	0.3	21.7	18.1
Hungary	696	23.9	73.0	23.9	3.0	0.0	20.6	27.1
Iran, Islamic Rep. of	860	7.2	79.9	7.2	11.9	1.0	7.8	6.7
Ireland	673	18.7	79.4	18.7	1.5	0.4	21.0	16.2
Israel	775	21.0	73.0	21.0	5.4	0.7	20.3	21.5
Italy	649	17.6	70.0	17.6	12.1	0.3	17.9	17.3
Japan	676	25.6	73.1	25.6	1.2	0.2	23.6	27.6
Jordan	1110	16.3	78.5	16.3	4.9	0.3	20.7	11.4
Kazakhstan	695	29.8	56.8	29.8	12.8	0.6	33.7	26.0
Korea, Rep. of	749	19.3	77.9	19.3	2.8	0.0	16.8	21.6
Kuwait	630	15.0	73.1	15.0	9.5	2.3	17.3	12.7
Lebanon	555	9.9	63.2	9.9	23.8	3.1	10.4	9.3
Lithuania	613	22.4	71.6	22.4	6.0	0.0	23.6	21.2
Malaysia	1389	11.3	77.9	11.3	10.4	0.4	12.2	10.3
Malta	547	17.5	78.2	17.5	3.9	0.4	20.8	14.3
Morocco	1864	14.7	72.0	14.7	12.3	1.0	14.0	15.3
New Zealand	1193	20.5	73.5	20.5	5.9	0.1	21.7	19.2
Norway	660	30.8	64.9	30.8	3.9	0.5	33.0	28.6
Oman	1260	16.7	78.2	16.7	4.6	0.5	20.1	13.7
Qatar	769	17.6	74.4	17.6	7.5	0.5	23.2	11.7
Russian Federation	690	18.9	66.9	18.9	14.2	0.0	18.8	19.0
Saudi Arabia	532	16.6	79.5	16.6	3.7	0.2	20.8	12.3
Singapore	870	34.7	63.4	34.7	2.0	0.0	35.3	34.1
Slovenia	617	34.5	61.3	34.5	4.2	0.0	36.8	32.3
South Africa	1800	5.1	88.5	5.1	4.9	1.5	4.5	5.6
Sweden	577	25.0	67.7	25.0	6.8	0.5	26.7	23.6
Thailand	927	6.6	84.0	6.6	8.4	1.0	7.9	5.0
Turkey	865	17.5	73.7	17.5	8.5	0.4	19.7	15.5
United Arab Emirates	2581	20.0	74.2	20.0	5.6	0.2	22.9	17.4
United States	1455	17.7	79.2	17.7	1.9	1.2	17.3	18.0
International Avg (n=39)	35971	18.8	73.7	18.8	6.9	0.6	19.9	17.7
Buenos Aires, Argentina	461	8.9	53.1	8.9	30.3	7.7	8.7	9.2
Ontario, Canada	646	30.8	63.4	30.8	5.2	0.5	32.4	29.3
Quebec, Canada	566	27.5	63.8	27.5	7.4	1.2	28.0	27.1
Norway (8)	695	24.7	70.8	24.7	4.3	0.2	25.7	23.9
Abu Dhabi, UAE	702	17.5	76.8	17.5	5.6	0.0	19.0	16.1
Dubai, UAE	874	29.0	66.1	29.0	4.9	0.0	33.5	24.0
Florida, US	304	11.1	82.9	11.1	4.8	1.1	12.9	9.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S08_07 (S062262): Physics / Knowing Type: MC Key: A
Label: Sound used by animals

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	33.4	33.4	19.2	10.7	35.2	1.2	0.3	30.8	36.1
Bahrain	692	38.2	38.2	10.8	12.6	36.5	1.9	0.0	33.9	42.3
Botswana	855	41.3	41.3	15.8	23.4	16.5	1.8	1.1	39.1	43.4
Canada	1250	38.1	38.1	15.4	12.2	31.5	1.6	1.3	31.4	45.2
Chile	674	16.9	16.9	8.5	7.9	62.1	3.1	1.5	14.9	19.0
Chinese Taipei	807	81.9	81.9	13.8	2.9	1.2	0.2	0.0	78.6	85.0
Egypt	1105	61.4	61.4	11.5	11.5	13.6	1.4	0.6	62.4	60.3
England	676	31.4	31.4	22.4	10.2	35.0	0.8	0.1	22.3	40.7
Georgia	580	35.3	35.3	10.7	7.6	43.9	2.1	0.5	30.6	39.3
Hong Kong SAR	596	53.9	53.9	20.8	6.0	18.9	0.2	0.3	42.5	63.7
Hungary	696	67.4	67.4	4.0	2.9	24.5	1.2	0.0	60.4	74.1
Iran, Islamic Rep. of	860	51.1	51.1	6.4	20.8	18.8	2.0	1.0	44.9	56.6
Ireland	673	43.9	43.9	19.9	7.6	27.2	1.0	0.4	35.6	53.1
Israel	775	50.4	50.4	14.7	9.2	22.8	1.9	0.9	43.6	56.3
Italy	649	28.1	28.1	18.4	6.8	44.8	1.7	0.3	25.0	31.0
Japan	676	48.2	48.2	12.8	5.0	33.7	0.2	0.2	41.0	55.4
Jordan	1110	49.3	49.3	8.1	12.9	27.6	1.8	0.3	46.1	52.9
Kazakhstan	695	54.7	54.7	7.1	9.4	25.8	2.5	0.6	52.1	57.2
Korea, Rep. of	749	60.0	60.0	31.4	2.6	6.0	0.0	0.0	52.4	66.9
Kuwait	630	33.3	33.3	15.4	12.9	31.7	4.3	2.3	35.1	31.7
Lebanon	552	40.1	40.1	16.1	14.8	15.6	10.2	3.1	35.4	45.2
Lithuania	613	47.7	47.7	15.7	10.6	24.5	1.5	0.0	44.6	51.0
Malaysia	1389	38.8	38.8	23.0	11.7	25.2	0.8	0.5	33.8	43.5
Malta	547	26.8	26.8	15.3	12.9	42.7	1.5	0.8	25.3	28.1
Morocco	1864	25.4	25.4	10.1	19.7	41.5	2.3	1.0	22.4	27.9
New Zealand	1193	31.6	31.6	17.4	10.3	37.6	3.0	0.2	25.9	37.9
Norway	660	74.5	74.5	10.9	8.9	3.5	1.7	0.5	70.0	78.8
Oman	1271	51.1	51.1	15.7	6.7	24.4	1.7	0.5	54.8	47.8
Qatar	769	31.2	31.2	18.7	11.8	36.3	1.4	0.5	25.1	37.6
Russian Federation	690	55.7	55.7	6.6	8.1	28.1	1.4	0.0	45.4	65.0
Saudi Arabia	529	11.4	11.4	47.6	10.7	29.3	0.8	0.2	9.3	13.6
Singapore	870	38.8	38.8	14.3	4.8	41.8	0.4	0.0	30.7	46.1
Slovenia	617	75.9	75.9	8.1	9.7	4.6	1.6	0.0	74.5	77.3
South Africa	1800	28.4	28.4	15.1	27.6	24.8	2.3	1.7	27.3	29.4
Sweden	577	65.1	65.1	14.6	6.0	12.0	1.7	0.6	62.7	67.3
Thailand	927	58.2	58.2	9.8	8.5	21.7	0.6	1.1	58.8	57.5
Turkey	865	59.6	59.6	11.3	4.0	24.2	0.5	0.4	60.6	58.6
United Arab Emirates	2581	41.4	41.4	13.1	12.4	31.1	1.7	0.2	37.6	45.1
United States	1455	39.9	39.9	21.0	9.2	27.7	0.9	1.4	32.4	47.4
International Avg (n=39)	35974	45.1	45.1	15.2	10.3	27.0	1.7	0.6	41.0	49.1
Buenos Aires, Argentina	450	9.2	9.2	12.0	9.2	48.6	14.4	6.8	8.8	9.6
Ontario, Canada	646	40.8	40.8	15.9	11.9	29.9	0.8	0.8	34.5	47.5
Quebec, Canada	565	32.6	32.6	15.9	12.6	35.2	2.3	1.4	25.8	39.8
Norway (8)	695	76.4	76.4	7.7	9.4	3.8	2.5	0.2	75.9	76.9
Abu Dhabi, UAE	702	39.9	39.9	10.4	13.8	34.2	1.6	0.0	36.6	43.1
Dubai, UAE	874	42.3	42.3	19.1	7.9	28.6	1.9	0.2	39.4	45.5
Florida, US	304	29.2	29.2	27.0	7.8	33.7	1.2	1.1	25.3	32.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S08_08 (S062035): Physics / Knowing Type: MC Key: C
Label: Heating water on a stove

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	31.5	18.4	21.8	31.5	26.4	1.7	0.3	29.9	33.2
Bahrain	692	30.6	21.7	17.8	30.6	27.9	1.9	0.0	29.7	31.5
Botswana	855	35.5	17.7	25.4	35.5	18.4	1.8	1.2	35.6	35.4
Canada	1250	31.0	19.7	13.6	31.0	33.3	1.1	1.3	28.3	33.8
Chile	674	15.7	31.2	16.1	15.7	33.7	1.8	1.5	11.2	20.3
Chinese Taipei	807	62.0	12.3	10.6	62.0	15.0	0.1	0.0	59.7	64.0
Egypt	1105	30.4	20.5	18.2	30.4	27.1	3.2	0.6	30.0	30.9
England	676	35.9	17.9	18.7	35.9	26.7	0.7	0.1	30.4	41.5
Georgia	580	42.2	22.1	11.2	42.2	19.8	4.2	0.5	34.8	48.4
Hong Kong SAR	596	47.7	13.2	17.1	47.7	21.5	0.3	0.3	42.1	52.4
Hungary	696	46.2	15.5	17.5	46.2	20.0	0.8	0.0	40.3	51.8
Iran, Islamic Rep. of	860	25.7	30.7	13.7	25.7	25.4	3.2	1.2	21.1	29.9
Ireland	673	36.6	16.8	12.7	36.6	31.9	1.6	0.4	36.5	36.7
Israel	775	36.0	15.3	13.9	36.0	31.0	2.7	1.1	33.5	38.2
Italy	649	27.1	19.4	12.6	27.1	39.2	1.4	0.3	25.0	29.2
Japan	676	64.9	8.8	13.0	64.9	12.7	0.4	0.2	58.1	71.8
Jordan	1110	30.6	25.4	17.5	30.6	23.8	2.3	0.3	33.1	27.9
Kazakhstan	695	51.7	12.8	9.3	51.7	23.5	2.0	0.8	51.0	52.3
Korea, Rep. of	749	73.2	5.9	3.9	73.2	16.1	0.8	0.0	71.8	74.5
Kuwait	630	18.5	25.1	22.7	18.5	26.3	5.0	2.3	18.5	18.7
Lebanon	555	44.7	14.2	13.2	44.7	16.7	8.2	3.1	40.1	49.6
Lithuania	613	39.7	19.0	14.4	39.7	26.8	0.2	0.0	33.0	46.6
Malaysia	1389	67.5	8.0	12.8	67.5	10.3	0.9	0.5	69.8	65.4
Malta	547	31.1	24.6	13.7	31.1	28.3	1.4	0.8	29.5	32.6
Morocco	1863	26.3	25.8	20.6	26.3	22.5	3.8	1.0	22.1	29.9
New Zealand	1193	30.9	18.8	20.1	30.9	27.9	1.9	0.4	26.8	35.3
Norway	660	51.7	10.6	11.8	51.7	22.8	2.5	0.6	50.9	52.5
Oman	1271	24.3	23.9	24.1	24.3	24.8	2.3	0.5	23.4	25.1
Qatar	769	27.4	24.2	19.4	27.4	26.4	2.0	0.5	27.3	27.5
Russian Federation	690	54.8	12.4	8.3	54.8	23.0	1.4	0.1	50.8	58.4
Saudi Arabia	531	28.4	22.2	22.5	28.4	25.1	1.5	0.2	32.2	24.5
Singapore	870	72.6	6.3	7.6	72.6	12.9	0.5	0.0	68.4	76.4
Slovenia	617	39.0	25.3	14.8	39.0	20.1	0.9	0.0	31.9	45.6
South Africa	1800	17.7	28.7	22.7	17.7	25.9	2.8	2.2	15.9	19.4
Sweden	577	52.6	8.4	12.6	52.6	21.3	4.4	0.7	50.5	54.5
Thailand	927	28.4	27.3	15.4	28.4	26.8	1.1	1.1	25.3	32.0
Turkey	865	39.7	22.7	12.1	39.7	24.3	0.9	0.4	43.1	36.7
United Arab Emirates	2581	24.8	21.0	17.1	24.8	34.4	2.5	0.3	21.4	27.9
United States	1455	21.9	26.1	16.3	21.9	33.0	1.1	1.7	19.4	24.5
International Avg (n=39)	35978	38.4	19.0	15.6	38.4	24.4	2.0	0.7	36.0	40.7
Buenos Aires, Argentina	444	18.3	20.3	13.5	18.3	22.6	18.0	7.3	18.2	18.4
Ontario, Canada	645	23.2	24.3	13.8	23.2	37.0	1.0	0.8	20.0	26.5
Quebec, Canada	565	47.7	11.6	12.8	47.7	25.0	1.5	1.4	44.1	51.5
Norway (8)	695	46.7	12.1	13.8	46.7	24.1	3.1	0.2	50.6	43.2
Abu Dhabi, UAE	702	22.7	22.4	18.0	22.7	34.0	2.7	0.0	19.2	26.0
Dubai, UAE	874	31.3	17.7	15.7	31.3	32.2	2.8	0.3	27.4	35.5
Florida, US	304	19.9	24.2	22.8	19.9	29.5	2.5	1.1	17.6	22.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S08_09 (S062144): Physics / Applying Type: MC Key: D
Label: Energy change in sliding

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	77.1	4.9	5.5	10.9	77.1	1.3	0.4	78.5	75.6
Bahrain	692	65.3	8.4	5.0	20.8	65.3	0.5	0.0	68.5	62.3
Botswana	855	63.8	9.2	7.8	16.2	63.8	1.4	1.7	68.2	59.3
Canada	1251	62.9	12.6	9.3	11.9	62.9	1.8	1.6	60.3	65.6
Chile	674	52.6	12.9	14.9	16.2	52.6	1.4	1.9	50.5	54.8
Chinese Taipei	807	88.9	2.8	5.9	2.2	88.9	0.1	0.0	89.4	88.5
Egypt	1105	69.0	7.0	5.8	16.0	69.0	1.3	0.9	70.2	67.5
England	676	75.4	5.7	5.9	11.8	75.4	0.8	0.3	72.6	78.3
Georgia	580	59.8	15.6	9.5	11.6	59.8	2.4	1.0	63.6	56.6
Hong Kong SAR	596	89.6	1.5	2.7	5.4	89.6	0.3	0.5	87.9	91.1
Hungary	696	84.4	4.8	4.0	6.3	84.4	0.5	0.0	83.8	84.9
Iran, Islamic Rep. of	860	73.8	4.4	3.0	16.3	73.8	0.8	1.6	72.2	75.2
Ireland	673	72.4	8.2	5.5	12.6	72.4	0.9	0.4	69.3	76.0
Israel	775	80.6	2.3	4.3	9.9	80.6	1.6	1.2	80.6	80.7
Italy	649	68.2	7.8	12.8	8.5	68.2	2.4	0.3	70.2	66.2
Japan	676	77.0	7.9	7.0	7.8	77.0	0.2	0.2	79.3	74.6
Jordan	1110	69.5	4.2	6.3	18.6	69.5	0.9	0.5	76.7	61.5
Kazakhstan	695	74.1	11.6	7.1	5.8	74.1	0.7	0.8	74.7	73.4
Korea, Rep. of	749	94.9	1.0	2.6	1.5	94.9	0.0	0.0	95.6	94.2
Kuwait	630	67.0	8.3	6.7	13.5	67.0	1.7	2.8	75.6	58.1
Lebanon	552	51.3	15.4	9.8	13.5	51.3	6.7	3.2	45.9	57.4
Lithuania	613	70.7	12.7	7.3	7.4	70.7	1.8	0.0	70.0	71.5
Malaysia	1389	78.4	2.1	11.1	7.0	78.4	0.6	0.9	82.2	74.7
Malta	547	71.4	8.4	7.3	11.2	71.4	0.9	0.8	71.4	71.4
Morocco	1864	67.0	4.6	5.1	20.8	67.0	1.3	1.2	69.0	65.3
New Zealand	1193	71.4	7.3	5.5	13.8	71.4	1.6	0.4	71.8	70.9
Norway	660	37.2	14.8	29.0	13.9	37.2	3.5	1.5	28.5	45.6
Oman	1271	65.3	5.7	5.5	21.4	65.3	1.2	0.9	70.6	60.7
Qatar	769	64.4	6.1	7.3	19.9	64.4	1.4	0.8	67.0	61.6
Russian Federation	690	80.6	8.7	4.6	3.8	80.6	2.2	0.1	76.3	84.4
Saudi Arabia	530	4.7	2.7	64.2	27.6	4.7	0.7	0.2	2.6	6.8
Singapore	870	90.0	1.2	1.7	6.8	90.0	0.3	0.0	89.4	90.6
Slovenia	617	39.9	25.8	13.4	15.2	39.9	5.7	0.0	33.0	46.4
South Africa	1800	45.4	15.6	17.2	16.5	45.4	2.5	2.8	45.8	44.9
Sweden	577	58.5	6.7	4.2	26.0	58.5	3.4	1.2	54.2	63.0
Thailand	927	50.9	23.7	8.1	14.7	50.9	1.5	1.1	52.2	49.3
Turkey	865	65.8	15.1	5.1	12.5	65.8	0.8	0.6	75.2	57.5
United Arab Emirates	2581	68.7	8.0	6.0	15.2	68.7	1.8	0.3	73.2	64.4
United States	1455	85.0	4.6	3.8	4.3	85.0	0.5	1.8	85.2	84.8
International Avg (n=39)	35976	67.5	8.5	8.9	12.7	67.5	1.5	0.9	68.0	67.1
Buenos Aires, Argentina	445	33.2	16.9	15.2	8.8	33.2	18.4	7.4	25.3	42.3
Ontario, Canada	646	66.1	10.4	8.1	12.3	66.1	1.9	1.2	65.8	66.6
Quebec, Canada	565	58.7	19.2	8.7	10.1	58.7	1.8	1.4	55.0	62.6
Norway (8)	695	31.4	20.3	28.9	15.5	31.4	3.5	0.3	27.5	34.9
Abu Dhabi, UAE	702	66.5	8.0	6.2	16.9	66.5	2.3	0.0	72.2	61.3
Dubai, UAE	874	77.9	5.4	4.3	10.4	77.9	1.7	0.3	80.2	75.5
Florida, US	304	84.6	5.0	4.4	3.2	84.6	1.7	1.1	87.4	82.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S08_10 (S062162): Physics / Applying Type: CR 1 Point
Label: Moving box onto truck

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	41.5	56.8	41.5	1.1	0.5	39.9	43.2
Bahrain	692	27.8	71.5	27.8	0.7	0.0	29.5	26.2
Botswana	855	7.8	88.4	7.8	1.7	2.1	5.9	9.6
Canada	1252	53.1	43.5	53.1	1.3	2.0	51.9	54.5
Chile	674	30.3	66.7	30.3	1.1	1.9	28.9	31.7
Chinese Taipei	807	47.4	52.3	47.4	0.3	0.0	43.7	50.9
Egypt	1105	8.3	88.4	8.3	2.3	0.9	8.2	8.5
England	676	39.8	59.4	39.8	0.5	0.3	32.8	46.9
Georgia	580	26.7	70.1	26.7	2.0	1.1	22.5	30.3
Hong Kong SAR	596	38.8	60.5	38.8	0.2	0.5	40.8	37.0
Hungary	696	50.6	49.3	50.6	0.1	0.0	44.2	56.6
Iran, Islamic Rep. of	860	28.2	68.9	28.2	1.3	1.6	23.9	32.1
Ireland	673	42.5	56.5	42.5	0.6	0.4	36.3	49.4
Israel	775	32.2	65.3	32.2	1.2	1.3	26.1	37.5
Italy	649	33.5	64.9	33.5	1.0	0.6	26.4	40.4
Japan	676	60.9	38.7	60.9	0.3	0.2	62.4	59.4
Jordan	1110	7.1	91.4	7.1	1.0	0.5	7.9	6.2
Kazakhstan	695	46.8	50.4	46.8	2.0	0.8	43.3	50.1
Korea, Rep. of	749	66.5	33.2	66.5	0.3	0.0	68.5	64.6
Kuwait	630	14.2	82.0	14.2	1.0	2.8	14.5	13.9
Lebanon	555	8.0	84.0	8.0	4.7	3.3	8.7	7.2
Lithuania	613	39.5	60.0	39.5	0.5	0.0	38.6	40.4
Malaysia	1389	17.1	79.5	17.1	2.5	0.9	14.3	19.8
Malta	547	32.0	66.4	32.0	0.5	1.0	31.1	33.0
Morocco	1857	12.9	82.4	12.9	3.5	1.2	10.4	15.1
New Zealand	1193	37.4	60.0	37.4	2.0	0.6	32.7	42.7
Norway	660	46.2	51.7	46.2	0.5	1.5	47.4	45.0
Oman	1270	22.7	75.5	22.7	0.9	0.9	20.2	24.8
Qatar	769	14.1	84.1	14.1	0.8	1.0	15.1	13.1
Russian Federation	690	45.1	52.7	45.1	2.1	0.1	39.2	50.4
Saudi Arabia	531	26.4	73.1	26.4	0.4	0.2	28.5	24.1
Singapore	870	29.8	69.9	29.8	0.0	0.3	25.4	33.9
Slovenia	617	57.7	42.3	57.7	0.0	0.0	56.5	58.9
South Africa	1800	8.4	86.0	8.4	2.4	3.3	7.5	9.2
Sweden	577	41.8	55.9	41.8	1.0	1.3	47.2	37.0
Thailand	927	31.4	64.9	31.4	2.6	1.1	29.7	33.3
Turkey	865	35.0	63.1	35.0	1.3	0.6	30.8	38.8
United Arab Emirates	2581	20.0	78.4	20.0	1.2	0.3	20.5	19.5
United States	1455	25.3	72.3	25.3	0.6	1.8	23.5	27.0
International Avg (n=39)	35973	32.2	65.6	32.2	1.2	0.9	30.4	33.9
Buenos Aires, Argentina	461	16.3	66.0	16.3	9.3	8.4	12.4	20.9
Ontario, Canada	646	49.6	46.9	49.6	1.7	1.8	50.8	48.5
Quebec, Canada	566	60.5	36.8	60.5	1.0	1.7	58.6	62.4
Norway (8)	695	37.1	61.6	37.1	1.0	0.3	35.9	38.1
Abu Dhabi, UAE	702	16.2	82.4	16.2	1.3	0.0	18.7	14.0
Dubai, UAE	874	29.7	68.7	29.7	1.2	0.3	28.2	31.4
Florida, US	304	15.3	82.9	15.3	0.7	1.1	15.0	15.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S08_11 (S062233): Earth Science / Knowing Type: MC Key: B
Label: Water source for desalinization

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	61.7	6.3	61.7	25.8	2.6	2.8	0.7	59.5	64.1
Bahrain	692	57.1	14.0	57.1	20.1	7.2	1.3	0.3	60.3	54.1
Botswana	855	34.9	11.7	34.9	40.3	8.9	1.4	2.7	37.5	32.4
Canada	1249	58.2	9.6	58.2	25.5	3.1	1.6	2.1	55.4	61.1
Chile	674	52.1	16.4	52.1	18.0	9.8	1.6	2.1	54.1	50.0
Chinese Taipei	807	72.2	2.3	72.2	19.1	6.2	0.2	0.0	70.4	73.9
Egypt	1105	51.3	20.4	51.3	13.8	11.4	2.1	0.9	51.4	51.2
England	676	61.8	6.9	61.8	26.0	4.4	0.6	0.3	59.7	63.9
Georgia	580	35.6	13.6	35.6	40.6	6.1	3.1	1.1	34.5	36.5
Hong Kong SAR	596	60.4	6.2	60.4	26.8	5.9	0.2	0.5	52.8	66.8
Hungary	696	63.4	6.8	63.4	26.8	2.3	0.6	0.0	54.7	71.7
Iran, Islamic Rep. of	860	35.1	15.8	35.1	36.9	7.6	2.7	1.8	27.0	42.4
Ireland	673	63.3	7.8	63.3	24.1	3.2	0.9	0.8	60.2	66.7
Israel	775	55.2	10.5	55.2	25.8	5.2	1.9	1.5	52.0	57.9
Italy	649	53.5	13.5	53.5	26.2	4.6	1.6	0.6	48.7	58.1
Japan	676	81.4	2.0	81.4	14.5	1.9	0.1	0.2	84.3	78.4
Jordan	1110	45.1	19.6	45.1	19.5	14.1	1.2	0.6	46.0	44.2
Kazakhstan	695	45.5	6.7	45.5	43.4	2.6	0.9	0.9	43.5	47.5
Korea, Rep. of	749	78.9	4.3	78.9	15.9	0.6	0.3	0.0	80.3	77.6
Kuwait	630	42.2	10.0	42.2	36.5	5.6	2.9	2.8	44.3	39.8
Lebanon	552	44.2	8.6	44.2	23.1	11.9	8.9	3.3	38.5	50.4
Lithuania	613	39.8	8.6	39.8	48.6	1.7	1.2	0.0	37.9	41.8
Malaysia	1389	56.9	14.7	56.9	23.2	2.5	1.5	1.2	56.9	57.0
Malta	547	52.2	9.5	52.2	28.8	7.1	1.3	1.0	54.6	50.0
Morocco	1861	47.8	13.8	47.8	14.9	19.2	3.0	1.3	44.8	50.4
New Zealand	1193	60.7	7.9	60.7	23.8	4.4	2.4	0.8	60.5	60.9
Norway	660	49.0	11.2	49.0	28.5	7.6	2.0	1.6	43.5	54.2
Oman	1271	58.7	11.4	58.7	22.7	4.4	1.7	1.1	60.4	57.2
Qatar	769	63.4	9.7	63.4	19.4	5.3	1.3	1.0	65.2	61.5
Russian Federation	690	44.7	6.9	44.7	43.4	2.7	2.2	0.1	40.4	48.5
Saudi Arabia	531	30.0	6.4	30.0	57.8	5.1	0.3	0.4	24.6	35.6
Singapore	870	75.3	4.2	75.3	18.5	1.6	0.2	0.3	73.5	76.9
Slovenia	617	60.4	11.5	60.4	21.7	3.9	2.6	0.0	56.6	64.0
South Africa	1800	44.5	14.0	44.5	26.7	8.7	2.4	3.7	44.1	44.9
Sweden	577	65.6	10.7	65.6	16.8	3.3	2.3	1.3	64.9	66.7
Thailand	927	51.1	14.3	51.1	27.2	4.9	1.2	1.3	52.6	49.4
Turkey	864	42.7	11.9	42.7	34.8	9.8	0.2	0.6	36.0	48.8
United Arab Emirates	2581	59.8	10.6	59.8	21.3	5.9	1.9	0.5	63.3	56.4
United States	1455	64.1	5.0	64.1	23.9	4.7	0.5	1.9	63.2	64.9
International Avg (n=39)	35971	54.3	10.1	54.3	26.9	5.8	1.7	1.1	52.8	55.8
Buenos Aires, Argentina	450	44.8	13.0	44.8	17.4	6.6	10.5	7.8	38.1	52.5
Ontario, Canada	646	58.7	10.3	58.7	25.7	2.0	1.4	1.8	56.1	61.7
Quebec, Canada	563	60.0	9.5	60.0	23.9	3.6	1.3	1.7	55.4	64.9
Norway (8)	695	49.3	14.4	49.3	28.1	5.9	2.0	0.3	51.6	47.2
Abu Dhabi, UAE	702	59.2	10.8	59.2	19.3	6.7	3.7	0.3	65.2	53.8
Dubai, UAE	874	61.8	7.3	61.8	26.4	3.2	0.7	0.6	62.6	60.8
Florida, US	304	56.0	6.6	56.0	31.1	4.9	0.3	1.1	52.6	59.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S08_13 (S062171): Earth Science / Knowing Type: MC Key: C
Label: Mountain range at edge of ocean

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1457	58.1	13.8	12.5	58.1	12.8	1.2	1.7	58.9	57.3
Bahrain	692	42.5	23.4	16.7	42.5	16.5	0.4	0.6	44.3	40.7
Botswana	855	28.3	43.8	6.5	28.3	16.5	1.1	3.8	28.3	28.2
Canada	1250	49.1	14.6	13.2	49.1	19.8	0.6	2.7	48.7	49.6
Chile	674	50.6	21.1	9.8	50.6	15.4	0.3	2.8	50.2	51.0
Chinese Taipei	807	66.6	11.7	13.5	66.6	8.1	0.2	0.0	58.6	74.0
Egypt	1105	36.3	21.5	26.1	36.3	14.0	0.9	1.2	34.0	39.0
England	676	54.8	14.5	9.6	54.8	20.3	0.5	0.3	53.8	55.7
Georgia	580	46.5	13.0	14.6	46.5	22.6	1.7	1.5	42.9	49.5
Hong Kong SAR	596	46.6	13.8	17.5	46.6	21.2	0.2	0.6	40.0	52.3
Hungary	696	53.7	11.5	15.3	53.7	19.5	0.0	0.0	54.6	52.8
Iran, Islamic Rep. of	860	45.4	23.9	10.4	45.4	16.9	0.7	2.7	39.2	51.1
Ireland	673	59.4	10.3	6.8	59.4	21.8	0.5	1.1	60.0	58.8
Israel	775	59.3	17.1	10.7	59.3	10.6	0.2	1.9	57.1	61.3
Italy	649	56.2	11.8	10.8	56.2	19.1	1.3	0.7	58.8	53.6
Japan	676	70.1	9.3	13.7	70.1	6.7	0.0	0.3	71.5	68.6
Jordan	1110	26.9	32.7	24.4	26.9	14.3	0.8	0.8	26.4	27.5
Kazakhstan	695	57.0	19.8	12.0	57.0	9.2	1.1	1.0	55.5	58.4
Korea, Rep. of	749	50.1	19.4	13.3	50.1	17.0	0.2	0.0	48.5	51.5
Kuwait	630	23.0	28.5	29.5	23.0	14.0	1.2	3.8	20.8	25.4
Lebanon	547	44.8	31.2	7.2	44.8	7.6	4.3	4.8	45.1	44.5
Lithuania	613	53.9	12.2	16.7	53.9	16.0	1.0	0.1	48.8	59.3
Malaysia	1389	52.7	18.2	4.7	52.7	21.7	0.6	2.1	50.8	54.6
Malta	547	42.9	24.0	8.4	42.9	21.6	1.7	1.4	46.6	39.3
Morocco	1865	30.6	30.4	23.8	30.6	10.4	2.2	2.5	32.1	29.4
New Zealand	1193	56.6	13.1	11.8	56.6	15.4	0.6	2.5	58.9	54.0
Norway	660	58.9	11.7	9.1	58.9	16.4	1.4	2.4	56.1	61.6
Oman	1271	59.4	12.6	12.7	59.4	12.6	0.9	1.7	58.9	59.9
Qatar	769	42.6	17.5	18.4	42.6	19.3	1.1	1.2	46.7	38.3
Russian Federation	690	62.9	9.6	12.0	62.9	13.5	1.3	0.7	65.2	60.8
Saudi Arabia	529	40.6	12.3	25.3	40.6	21.1	0.1	0.7	44.5	36.5
Singapore	870	58.0	14.1	9.4	58.0	18.1	0.1	0.3	57.0	59.0
Slovenia	617	63.0	10.3	15.4	63.0	10.6	0.7	0.0	63.5	62.5
South Africa	1800	28.5	43.2	7.7	28.5	14.1	1.0	5.4	30.6	26.5
Sweden	577	52.1	10.8	9.3	52.1	22.7	3.0	2.0	56.1	48.1
Thailand	927	52.1	22.2	11.4	52.1	11.8	0.6	2.0	53.1	50.9
Turkey	865	52.8	24.2	7.6	52.8	14.7	0.1	0.6	52.4	53.2
United Arab Emirates	2581	48.8	17.1	15.3	48.8	15.6	2.3	0.9	49.8	47.9
United States	1455	51.7	16.8	12.7	51.7	16.6	0.2	2.1	50.8	52.5
International Avg (n=39)	35970	49.6	18.6	13.5	49.6	15.8	0.9	1.6	49.2	49.9
Buenos Aires, Argentina	453	40.1	25.6	10.3	40.1	11.0	4.4	8.7	41.8	38.0
Ontario, Canada	646	45.1	15.9	12.9	45.1	23.0	0.9	2.2	45.9	44.4
Quebec, Canada	564	59.3	13.5	13.8	59.3	11.2	0.4	1.9	56.7	62.1
Norway (8)	695	53.2	15.0	10.6	53.2	18.7	1.3	1.2	51.8	54.5
Abu Dhabi, UAE	702	43.4	16.1	20.3	43.4	16.4	3.0	0.8	45.5	41.4
Dubai, UAE	874	54.0	15.5	11.7	54.0	17.4	0.7	0.7	51.4	56.8
Florida, US	304	47.6	20.1	11.0	47.6	20.2	0.0	1.1	49.9	45.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S09_01 (S052076): Biology / Knowing Type: MC Key: A
Label: Best source of carbohydrates

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	61.2	61.2	7.9	16.0	13.3	1.6	0.0	67.9	54.4
Bahrain	707	40.1	40.1	15.1	25.6	18.2	1.0	0.0	43.5	37.0
Botswana	852	53.1	53.1	9.1	14.6	22.2	0.8	0.2	61.6	44.9
Canada	1248	49.6	49.6	11.4	22.1	16.3	0.6	0.0	55.0	44.7
Chile	676	36.2	36.2	15.1	31.3	15.1	1.9	0.4	38.6	34.1
Chinese Taipei	810	58.7	58.7	12.2	7.9	20.7	0.5	0.0	56.0	61.2
Egypt	1115	45.6	45.6	11.5	19.7	21.8	1.4	0.0	49.8	40.7
England	687	80.4	80.4	3.8	11.6	3.7	0.6	0.0	83.0	77.6
Georgia	581	37.5	37.5	14.1	23.5	23.1	1.6	0.1	42.3	33.8
Hong Kong SAR	590	83.6	83.6	3.3	5.0	7.9	0.2	0.0	85.5	81.9
Hungary	691	45.7	45.7	27.7	18.1	7.7	0.7	0.0	50.0	41.8
Iran, Islamic Rep. of	872	40.4	40.4	13.5	17.4	26.6	1.9	0.2	44.4	36.8
Ireland	678	82.5	82.5	4.0	8.1	5.1	0.2	0.0	91.0	74.1
Israel	790	67.8	67.8	12.0	10.9	7.6	1.2	0.4	67.3	68.3
Italy	627	54.7	54.7	23.4	11.6	9.3	1.1	0.0	60.6	49.5
Japan	671	86.7	86.7	8.2	3.8	1.0	0.3	0.0	88.5	84.9
Jordan	1122	50.4	50.4	11.0	15.7	22.1	0.8	0.0	56.1	44.3
Kazakhstan	696	66.1	66.1	9.5	15.6	8.5	0.4	0.0	65.0	67.1
Korea, Rep. of	749	85.9	85.9	3.7	6.9	3.4	0.1	0.0	87.9	84.1
Kuwait	618	36.3	36.3	12.8	30.1	17.9	2.7	0.2	34.4	38.1
Lebanon	548	39.4	39.4	11.5	16.9	23.8	8.2	0.2	37.0	42.2
Lithuania	619	49.1	49.1	6.7	25.7	18.3	0.3	0.0	55.0	42.8
Malaysia	1389	68.6	68.6	7.0	11.7	11.8	0.7	0.2	72.0	65.4
Malta	547	73.9	73.9	6.7	10.0	8.5	0.5	0.4	80.0	68.0
Morocco	1886	15.6	15.6	12.4	26.8	41.3	3.8	0.1	13.4	17.6
New Zealand	1184	66.0	66.0	7.3	13.0	12.0	1.7	0.1	70.1	61.6
Norway	653	50.4	50.4	22.1	17.3	8.3	1.6	0.2	54.4	47.1
Oman	1272	37.4	37.4	10.4	21.1	29.0	1.7	0.4	45.2	30.6
Qatar	762	48.8	48.8	9.0	22.3	18.5	1.4	0.0	54.3	43.1
Russian Federation	686	53.9	53.9	18.1	14.8	12.1	1.0	0.0	60.6	48.3
Saudi Arabia	540	28.0	28.0	16.7	33.3	21.9	0.2	0.0	29.9	26.2
Singapore	869	76.9	76.9	7.5	7.8	7.7	0.1	0.0	79.8	74.2
Slovenia	612	70.3	70.3	3.7	17.0	8.6	0.4	0.0	77.9	63.4
South Africa	1794	50.6	50.6	6.1	13.9	28.2	1.1	0.0	52.8	48.3
Sweden	589	75.4	75.4	6.8	7.1	7.5	3.2	0.1	78.6	71.8
Thailand	928	59.2	59.2	10.0	19.3	10.9	0.6	0.0	62.2	55.9
Turkey	868	58.5	58.5	13.4	13.1	14.7	0.2	0.0	66.7	51.0
United Arab Emirates	2588	50.8	50.8	11.4	18.5	18.1	1.0	0.1	52.0	49.6
United States	1463	55.7	55.7	11.3	16.1	15.8	1.1	0.1	56.7	54.6
International Avg (n=39)	36027	56.2	56.2	11.0	16.4	15.1	1.2	0.1	59.7	52.8
Buenos Aires, Argentina	459	26.1	26.1	24.2	27.8	11.6	9.2	1.1	26.8	25.4
Ontario, Canada	643	57.5	57.5	11.4	18.2	12.1	0.9	0.0	62.7	53.0
Quebec, Canada	565	35.2	35.2	10.8	29.1	24.6	0.3	0.0	40.9	29.3
Norway (8)	689	32.4	32.4	22.5	28.0	15.1	2.0	0.0	40.1	25.2
Abu Dhabi, UAE	698	42.4	42.4	12.3	22.3	22.4	0.6	0.0	43.0	41.8
Dubai, UAE	885	64.3	64.3	9.9	11.7	13.3	0.8	0.0	65.3	63.2
Florida, US	301	45.1	45.1	13.4	19.8	19.8	1.7	0.2	49.1	41.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S09_02 (S052272): Biology / Reasoning Type: CR 1 Point
Label: Trout and frog populations

COUNTRY	N	10 %	11 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	17.7	46.1	2.8	25.4	63.8	8.0	0.0	61.9	65.8
Bahrain	707	14.4	25.3	2.2	37.7	39.7	20.3	0.0	47.0	33.4
Botswana	852	7.0	9.2	0.3	72.6	16.2	10.4	0.5	18.0	14.5
Canada	1251	15.7	48.2	5.2	23.3	63.9	7.6	0.0	65.2	62.8
Chile	676	9.5	34.1	6.0	24.8	43.6	25.3	0.4	44.9	42.5
Chinese Taipei	810	37.6	41.3	0.4	14.7	78.9	6.0	0.0	82.0	76.1
Egypt	1115	14.9	13.6	0.4	39.7	28.5	31.3	0.1	29.4	27.4
England	687	21.1	45.9	0.7	24.4	67.0	7.8	0.2	63.2	70.8
Georgia	581	12.1	30.8	0.5	28.3	42.8	28.3	0.1	43.0	42.7
Hong Kong SAR	590	16.4	60.1	0.5	18.6	76.5	4.4	0.0	76.7	76.4
Hungary	691	13.9	47.0	2.3	23.2	60.9	13.5	0.0	57.0	64.5
Iran, Islamic Rep. of	872	26.5	16.3	2.8	32.4	42.9	21.8	0.2	44.9	41.0
Ireland	678	20.2	44.6	4.5	25.3	64.7	5.5	0.0	62.8	66.7
Israel	790	9.5	57.8	1.0	16.1	67.4	15.1	0.4	66.3	68.3
Italy	627	14.4	47.0	1.2	18.7	61.4	18.8	0.0	62.6	60.3
Japan	671	31.3	48.8	1.5	13.7	80.1	4.6	0.0	79.3	80.9
Jordan	1122	15.5	9.5	1.1	55.3	25.0	18.5	0.2	27.5	22.3
Kazakhstan	696	33.1	20.8	0.4	29.1	53.9	16.6	0.0	54.0	53.8
Korea, Rep. of	749	31.7	47.7	0.7	15.2	79.5	4.7	0.0	79.6	79.3
Kuwait	618	14.1	6.1	0.2	34.9	20.2	44.5	0.2	23.2	17.2
Lebanon	552	7.2	15.7	0.9	25.9	22.9	50.1	0.2	24.3	21.1
Lithuania	619	24.0	46.1	0.9	18.2	70.0	10.9	0.0	67.1	73.0
Malaysia	1389	30.7	27.4	0.1	28.1	58.1	13.4	0.2	57.8	58.4
Malta	547	9.8	32.9	2.0	34.7	42.7	20.2	0.4	45.5	39.9
Morocco	1885	5.6	24.4	0.5	38.0	30.0	31.2	0.2	33.3	26.8
New Zealand	1184	15.2	45.7	2.8	28.3	60.9	7.7	0.2	62.4	59.3
Norway	653	15.9	55.6	1.6	17.4	71.5	9.3	0.2	72.7	70.6
Oman	1270	8.1	29.0	1.9	45.4	37.1	15.2	0.4	44.6	30.6
Qatar	762	18.9	21.8	1.1	39.4	40.7	18.4	0.3	44.7	36.6
Russian Federation	686	20.6	49.4	0.0	18.6	69.9	11.4	0.0	68.4	71.2
Saudi Arabia	540	12.9	16.7	0.0	41.2	29.6	29.2	0.0	34.5	24.6
Singapore	869	15.5	61.3	1.7	18.0	76.8	3.5	0.0	76.5	77.1
Slovenia	612	27.5	33.4	3.3	26.6	60.9	9.1	0.0	60.9	61.0
South Africa	1794	6.5	5.6	0.2	68.1	12.1	19.4	0.2	11.7	12.4
Sweden	589	6.2	62.3	0.7	15.5	68.5	15.2	0.1	72.0	64.6
Thailand	928	17.2	35.2	5.2	30.6	52.5	11.7	0.1	53.2	51.6
Turkey	868	21.9	24.7	1.6	40.3	46.6	11.5	0.0	48.6	44.7
United Arab Emirates	2587	12.1	29.1	1.7	39.5	41.2	17.3	0.3	46.3	36.3
United States	1463	14.4	49.6	0.9	31.4	64.0	3.6	0.1	64.1	63.9
International Avg (n=39)	36030	17.1	35.0	1.6	30.2	52.1	15.9	0.1	53.3	51.0
Buenos Aires, Argentina	468	8.0	19.6	1.3	22.0	27.6	46.7	2.4	25.0	30.5
Ontario, Canada	643	14.8	46.2	6.1	24.9	61.0	8.1	0.0	62.8	59.4
Quebec, Canada	568	15.8	51.8	2.2	21.6	67.6	8.6	0.0	67.9	67.3
Norway (8)	689	15.3	48.7	2.0	21.1	64.1	12.9	0.0	68.1	60.6
Abu Dhabi, UAE	698	10.8	25.1	2.1	44.7	36.0	17.3	0.0	43.9	28.6
Dubai, UAE	884	11.6	40.1	1.9	34.7	51.7	11.7	0.0	54.6	48.6
Florida, US	301	13.3	44.3	0.9	37.0	57.6	4.4	0.2	55.6	59.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S09_03A (S052085A): Biology / Reasoning Type: CR 1 Point
Label: Crocodile facts: Why well suited

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	23.6	7.9	57.5	23.6	10.7	0.3	22.7	24.6
Bahrain	707	11.4	11.5	52.0	11.4	25.0	0.2	14.2	8.9
Botswana	851	3.9	9.0	78.5	3.9	8.1	0.5	5.3	2.6
Canada	1251	25.4	12.2	51.0	25.4	11.3	0.0	23.7	27.0
Chile	676	14.8	11.0	44.1	14.8	29.4	0.7	16.5	13.3
Chinese Taipei	810	31.5	17.0	40.1	31.5	11.5	0.0	34.3	28.9
Egypt	1115	13.6	16.9	40.4	13.6	29.0	0.2	17.4	9.2
England	687	34.2	4.7	49.6	34.2	11.1	0.4	33.9	34.5
Georgia	581	15.0	9.8	35.9	15.0	38.9	0.3	16.7	13.7
Hong Kong SAR	590	22.9	15.6	49.6	22.9	12.0	0.0	20.6	24.7
Hungary	691	15.2	9.0	55.6	15.2	20.1	0.0	14.5	15.9
Iran, Islamic Rep. of	872	5.1	7.7	50.0	5.1	37.0	0.2	5.3	4.9
Ireland	678	31.0	7.5	49.5	31.0	12.0	0.0	31.1	30.9
Israel	790	17.2	10.9	51.1	17.2	20.1	0.7	13.9	20.1
Italy	627	16.9	17.6	35.4	16.9	30.0	0.0	18.3	15.7
Japan	671	34.9	16.1	35.2	34.9	13.8	0.0	35.7	34.1
Jordan	1122	20.8	4.4	52.0	20.8	22.4	0.4	26.1	15.2
Kazakhstan	696	29.5	1.3	44.8	29.5	24.3	0.1	33.5	25.9
Korea, Rep. of	749	25.1	18.8	42.9	25.1	13.2	0.0	24.9	25.4
Kuwait	618	13.5	7.3	45.6	13.5	33.2	0.4	14.8	12.3
Lebanon	552	6.3	11.1	31.2	6.3	51.1	0.3	7.4	4.9
Lithuania	619	30.5	11.4	43.4	30.5	14.7	0.0	31.3	29.7
Malaysia	1389	5.9	6.8	67.4	5.9	19.7	0.2	6.0	5.9
Malta	547	21.7	5.1	52.1	21.7	20.8	0.4	21.3	22.1
Morocco	1886	1.5	6.9	56.4	1.5	35.0	0.2	2.3	0.8
New Zealand	1184	24.7	7.6	56.7	24.7	10.8	0.2	24.1	25.4
Norway	653	20.0	7.8	53.9	20.0	18.1	0.2	21.4	18.8
Oman	1272	14.2	16.7	53.9	14.2	14.7	0.4	17.0	11.8
Qatar	762	14.2	12.1	52.9	14.2	20.2	0.7	17.1	11.1
Russian Federation	686	17.9	8.5	43.7	17.9	29.8	0.0	19.9	16.2
Saudi Arabia	540	7.6	8.5	56.5	7.6	27.4	0.0	10.3	4.9
Singapore	869	32.8	6.2	55.3	32.8	5.7	0.0	31.8	33.8
Slovenia	612	26.8	15.9	43.1	26.8	14.2	0.0	32.4	21.7
South Africa	1794	2.9	27.0	59.6	2.9	10.1	0.4	3.1	2.7
Sweden	589	28.4	7.7	42.2	28.4	21.5	0.2	27.4	29.4
Thailand	928	8.6	22.6	47.8	8.6	20.8	0.1	10.0	7.1
Turkey	868	14.2	14.6	52.5	14.2	18.7	0.0	18.4	10.3
United Arab Emirates	2588	11.7	13.5	58.3	11.7	16.2	0.4	12.6	10.8
United States	1463	29.4	11.2	57.1	29.4	2.2	0.1	28.4	30.6
International Avg (n=39)	36033	18.6	11.2	49.9	18.6	20.1	0.2	19.6	17.6
Buenos Aires, Argentina	468	12.5	2.7	27.1	12.5	54.3	3.4	12.5	12.5
Ontario, Canada	643	23.2	10.5	54.2	23.2	12.2	0.0	23.4	23.0
Quebec, Canada	568	27.8	15.3	46.7	27.8	10.2	0.0	24.8	30.9
Norway (8)	689	13.5	8.2	57.5	13.5	20.9	0.0	16.5	10.9
Abu Dhabi, UAE	698	8.9	10.9	65.0	8.9	15.0	0.2	9.9	8.0
Dubai, UAE	885	20.8	12.6	53.8	20.8	12.8	0.0	21.2	20.2
Florida, US	301	26.3	9.8	61.4	26.3	2.4	0.2	29.6	23.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S09_03B (S052085B): Biology / Reasoning Type: CR 1 Point
Label: Crocodile facts: Advantage vision

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	68.7	26.2	68.7	4.8	0.3	71.4	65.8
Bahrain	707	37.5	42.8	37.5	19.4	0.2	42.3	33.4
Botswana	851	17.1	74.7	17.1	7.5	0.6	18.9	15.5
Canada	1251	78.1	16.3	78.1	5.6	0.0	80.1	76.4
Chile	676	41.4	36.4	41.4	21.5	0.7	38.1	44.4
Chinese Taipei	810	70.2	21.5	70.2	8.2	0.0	76.6	64.4
Egypt	1115	19.5	49.7	19.5	30.4	0.3	19.7	19.2
England	687	76.5	19.4	76.5	3.8	0.4	74.7	78.3
Georgia	581	39.1	20.2	39.1	40.4	0.3	39.6	38.7
Hong Kong SAR	590	65.9	27.4	65.9	6.7	0.0	67.8	64.3
Hungary	691	59.4	24.3	59.4	16.2	0.0	59.7	59.2
Iran, Islamic Rep. of	872	41.8	29.5	41.8	28.3	0.3	43.9	39.9
Ireland	678	78.0	18.5	78.0	3.5	0.0	83.7	72.3
Israel	790	66.4	18.9	66.4	14.0	0.7	65.1	67.6
Italy	625	63.8	16.1	63.8	20.1	0.0	65.6	62.2
Japan	671	85.4	11.2	85.4	3.4	0.0	88.6	82.1
Jordan	1122	33.5	45.1	33.5	21.0	0.4	37.7	28.9
Kazakhstan	696	50.6	31.8	50.6	17.4	0.3	51.9	49.4
Korea, Rep. of	749	67.6	25.4	67.6	7.0	0.0	70.0	65.4
Kuwait	618	24.0	45.9	24.0	29.8	0.4	24.5	23.5
Lebanon	551	19.8	32.0	19.8	47.9	0.3	19.8	19.9
Lithuania	619	62.3	29.5	62.3	8.2	0.0	64.1	60.5
Malaysia	1389	40.4	45.2	40.4	14.2	0.3	42.4	38.5
Malta	547	53.2	29.6	53.2	16.6	0.6	56.8	49.6
Morocco	1886	13.9	51.3	13.9	34.4	0.3	16.1	11.9
New Zealand	1184	66.9	28.2	66.9	4.5	0.4	69.7	63.9
Norway	653	67.6	25.0	67.6	7.0	0.4	68.4	67.0
Oman	1268	35.1	52.1	35.1	12.4	0.4	39.8	31.0
Qatar	762	41.2	44.6	41.2	13.5	0.7	44.4	37.9
Russian Federation	686	54.0	27.5	54.0	18.5	0.0	54.0	53.9
Saudi Arabia	540	24.6	48.2	24.6	27.0	0.2	33.1	15.9
Singapore	869	84.0	13.5	84.0	2.5	0.0	84.0	83.9
Slovenia	612	57.2	30.3	57.2	12.5	0.0	62.7	52.1
South Africa	1794	14.1	75.4	14.1	10.0	0.5	16.7	11.5
Sweden	589	72.1	17.4	72.1	10.1	0.4	75.9	67.8
Thailand	928	43.4	38.7	43.4	17.8	0.1	46.1	40.3
Turkey	868	66.6	20.8	66.6	12.1	0.4	72.0	61.7
United Arab Emirates	2588	47.1	39.7	47.1	12.9	0.4	53.6	40.7
United States	1463	69.5	28.1	69.5	2.2	0.2	72.7	66.0
International Avg (n=39)	36026	51.7	32.8	51.7	15.2	0.3	54.2	49.4
Buenos Aires, Argentina	468	33.8	14.5	33.8	48.3	3.4	34.6	33.0
Ontario, Canada	643	78.2	15.8	78.2	6.0	0.0	79.9	76.7
Quebec, Canada	568	75.7	18.8	75.7	5.5	0.0	78.8	72.5
Norway (8)	689	63.9	27.0	63.9	9.0	0.0	68.7	59.5
Abu Dhabi, UAE	698	44.8	41.0	44.8	14.0	0.2	54.4	35.8
Dubai, UAE	885	58.2	33.3	58.2	8.5	0.0	60.4	55.8
Florida, US	301	62.5	34.8	62.5	2.3	0.4	65.6	59.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S09_04 (S052094): Biology / Applying Type: CR 1 Point
Label: Similarity between bird and frog

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	52.4	39.2	52.4	8.2	0.3	54.7	49.9
Bahrain	707	46.3	39.7	46.3	13.7	0.2	58.2	36.0
Botswana	850	22.2	69.8	22.2	7.2	0.8	22.2	22.1
Canada	1251	44.1	55.9	44.1	0.0	0.0	48.2	40.3
Chile	676	19.3	44.5	19.3	35.6	0.7	21.4	17.4
Chinese Taipei	810	21.9	69.1	21.9	8.9	0.0	21.3	22.4
Egypt	1114	8.3	64.6	8.3	26.7	0.3	10.0	6.3
England	687	41.5	48.8	41.5	9.3	0.4	43.4	39.6
Georgia	581	14.6	56.4	14.6	28.7	0.3	21.6	9.1
Hong Kong SAR	590	30.6	57.1	30.6	12.3	0.0	28.9	31.9
Hungary	691	9.1	76.4	9.1	14.5	0.0	8.1	10.0
Iran, Islamic Rep. of	872	22.4	62.4	22.4	14.9	0.3	26.5	18.6
Ireland	678	37.3	53.4	37.3	9.2	0.0	37.8	36.8
Israel	790	29.1	48.0	29.1	22.3	0.7	31.8	26.6
Italy	627	27.9	46.8	27.9	25.2	0.0	26.8	28.9
Japan	671	44.9	49.9	44.9	5.2	0.0	46.6	43.1
Jordan	1122	32.7	55.1	32.7	11.8	0.4	37.0	28.1
Kazakhstan	696	19.1	68.8	19.1	11.8	0.3	19.6	18.8
Korea, Rep. of	749	32.8	57.0	32.8	10.2	0.0	31.0	34.4
Kuwait	618	34.9	39.8	34.9	24.8	0.5	41.6	28.4
Lebanon	551	16.3	51.0	16.3	32.1	0.6	18.3	13.9
Lithuania	619	20.5	61.3	20.5	18.2	0.0	20.5	20.5
Malaysia	1389	40.1	49.1	40.1	10.4	0.4	44.9	35.8
Malta	547	28.7	55.3	28.7	15.3	0.7	32.1	25.3
Morocco	1881	13.8	63.9	13.8	21.9	0.4	15.0	12.6
New Zealand	1184	40.8	48.0	40.8	10.8	0.4	44.7	36.7
Norway	653	20.9	60.1	20.9	18.6	0.4	23.1	18.9
Oman	1273	32.6	56.4	32.6	10.6	0.4	40.7	25.5
Qatar	762	43.3	42.8	43.3	13.3	0.7	50.1	36.1
Russian Federation	686	21.0	60.4	21.0	18.7	0.0	21.7	20.4
Saudi Arabia	540	21.8	57.7	21.8	20.3	0.2	28.7	14.8
Singapore	869	66.0	31.3	66.0	2.7	0.0	64.0	67.9
Slovenia	612	16.5	65.7	16.5	17.9	0.0	18.7	14.4
South Africa	1794	11.1	74.8	11.1	13.5	0.7	11.1	11.1
Sweden	588	17.3	63.9	17.3	18.4	0.4	17.8	16.8
Thailand	928	24.3	61.3	24.3	14.3	0.1	27.5	20.7
Turkey	868	18.8	68.7	18.8	12.0	0.4	22.1	15.9
United Arab Emirates	2588	43.7	45.4	43.7	10.6	0.4	51.5	36.1
United States	1463	45.3	51.1	45.3	3.3	0.2	48.4	42.1
International Avg (n=39)	36025	29.1	55.7	29.1	15.0	0.3	31.7	26.5
Buenos Aires, Argentina	468	7.4	34.9	7.4	54.3	3.4	7.8	7.0
Ontario, Canada	643	47.4	52.6	47.4	0.0	0.0	52.8	42.7
Quebec, Canada	568	35.2	64.8	35.2	0.0	0.0	35.7	34.6
Norway (8)	689	15.3	60.2	15.3	24.3	0.3	17.0	13.9
Abu Dhabi, UAE	698	31.5	57.0	31.5	11.3	0.2	40.5	23.1
Dubai, UAE	885	54.0	37.6	54.0	8.4	0.0	57.8	49.9
Florida, US	301	39.0	54.7	39.0	5.9	0.4	41.2	37.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S09_05 (S052248): Biology / Applying Type: MC Key: B
Label: Cavefish with no eyes

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1449	45.7	8.9	45.7	26.7	16.4	2.2	0.3	46.8	44.4
Bahrain	707	40.9	10.1	40.9	33.6	13.5	1.6	0.2	48.0	34.8
Botswana	851	31.5	10.0	31.5	38.5	16.2	2.6	1.3	27.8	35.0
Canada	1247	42.5	8.1	42.5	28.6	18.5	2.2	0.0	38.0	46.6
Chile	676	49.7	12.7	49.7	22.7	12.4	1.7	0.8	48.0	51.3
Chinese Taipei	810	49.1	1.9	49.1	19.8	29.0	0.0	0.2	43.6	54.2
Egypt	1114	34.2	15.5	34.2	32.6	14.9	2.5	0.3	35.2	33.1
England	687	44.7	7.4	44.7	25.7	20.9	0.8	0.5	41.1	48.4
Georgia	581	27.3	8.8	27.3	42.9	17.2	3.3	0.6	23.2	30.5
Hong Kong SAR	590	49.4	3.0	49.4	26.7	20.2	0.7	0.0	37.7	59.0
Hungary	691	57.6	5.0	57.6	18.8	17.6	1.1	0.0	49.9	64.5
Iran, Islamic Rep. of	872	19.5	14.4	19.5	53.9	9.8	2.1	0.4	17.6	21.2
Ireland	678	45.0	8.9	45.0	28.4	17.3	0.3	0.1	39.4	50.5
Israel	790	34.5	12.9	34.5	37.7	11.2	2.9	0.8	31.3	37.3
Italy	627	53.3	5.6	53.3	26.0	12.9	2.2	0.0	49.8	56.3
Japan	671	60.8	3.2	60.8	9.4	26.1	0.5	0.0	57.1	64.6
Jordan	1122	37.7	12.3	37.7	30.3	16.5	2.9	0.5	37.3	38.2
Kazakhstan	696	51.9	7.7	51.9	23.7	14.6	1.8	0.3	47.8	55.5
Korea, Rep. of	749	52.3	1.3	52.3	22.9	23.4	0.1	0.0	48.9	55.5
Kuwait	618	44.0	12.8	44.0	26.2	10.2	6.2	0.5	46.1	42.0
Lebanon	545	32.8	10.5	32.8	31.0	13.0	11.5	1.2	32.3	33.3
Lithuania	619	47.5	8.9	47.5	22.1	19.2	2.3	0.0	40.6	54.7
Malaysia	1389	28.8	11.0	28.8	40.0	18.3	1.5	0.5	22.6	34.4
Malta	547	53.2	6.9	53.2	24.7	13.3	1.1	0.7	48.3	58.1
Morocco	1881	43.2	13.4	43.2	25.9	14.3	2.9	0.4	43.9	42.5
New Zealand	1184	51.8	8.1	51.8	20.3	17.4	1.9	0.6	45.2	58.9
Norway	653	47.3	4.2	47.3	30.2	16.0	1.6	0.8	41.5	52.3
Oman	1273	44.8	9.8	44.8	25.4	17.2	2.4	0.4	43.6	45.9
Qatar	762	40.3	13.3	40.3	33.5	9.6	2.6	0.7	43.4	37.0
Russian Federation	686	66.0	5.3	66.0	12.1	14.8	1.8	0.0	60.7	70.4
Saudi Arabia	535	43.6	16.7	43.6	29.1	9.4	0.9	0.2	42.2	45.1
Singapore	869	42.1	11.6	42.1	27.0	18.4	0.8	0.1	34.1	49.9
Slovenia	612	69.0	2.1	69.0	19.2	8.5	1.2	0.0	65.8	71.9
South Africa	1794	29.0	16.5	29.0	39.1	12.0	2.7	0.7	26.6	31.5
Sweden	588	46.1	6.4	46.1	29.9	14.4	2.8	0.4	42.7	49.9
Thailand	928	53.6	5.8	53.6	23.7	15.7	0.9	0.3	50.9	56.7
Turkey	868	15.7	10.6	15.7	57.8	14.2	1.2	0.5	14.2	17.0
United Arab Emirates	2588	41.8	11.2	41.8	33.6	11.8	1.2	0.4	41.9	41.7
United States	1463	50.6	9.4	50.6	22.9	15.2	1.4	0.5	50.5	50.7
International Avg (n=39)	36010	44.1	9.0	44.1	28.8	15.7	2.1	0.4	41.2	46.8
Buenos Aires, Argentina	457	33.2	6.6	33.2	30.4	14.6	11.6	3.6	28.4	38.7
Ontario, Canada	642	40.7	9.5	40.7	30.4	16.8	2.6	0.0	38.7	42.3
Quebec, Canada	565	45.9	4.6	45.9	27.1	21.0	1.3	0.0	41.8	50.3
Norway (8)	689	40.1	5.5	40.1	33.5	18.0	2.7	0.3	34.4	45.1
Abu Dhabi, UAE	698	42.6	12.5	42.6	32.1	11.3	1.3	0.2	42.4	42.8
Dubai, UAE	885	42.1	9.5	42.1	33.6	13.1	1.6	0.1	41.2	43.1
Florida, US	301	47.1	11.2	47.1	22.5	17.7	0.8	0.7	47.4	46.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S09_06 (S052146): Chemistry / Applying Type: CR 1 Point
Label: Density of corn oil and aluminum

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	33.3	12.9	52.5	33.3	1.1	0.3	32.3	34.3
Bahrain	707	37.1	2.4	59.0	37.1	1.3	0.2	42.3	32.5
Botswana	851	26.9	4.2	66.1	26.9	1.4	1.4	27.5	26.2
Canada	1251	43.6	14.1	39.7	43.6	1.9	0.8	43.9	43.4
Chile	676	17.9	8.7	69.7	17.9	3.0	0.8	18.4	17.4
Chinese Taipei	810	66.6	4.0	29.0	66.6	0.3	0.2	70.8	62.7
Egypt	1114	37.5	6.8	52.8	37.5	2.6	0.3	38.8	36.0
England	687	43.8	15.0	37.9	43.8	2.6	0.7	40.2	47.5
Georgia	581	27.3	3.1	66.6	27.3	2.5	0.6	29.6	25.4
Hong Kong SAR	590	60.7	4.9	33.7	60.7	0.7	0.0	58.7	62.3
Hungary	691	59.8	5.4	34.2	59.8	0.1	0.5	57.2	62.1
Iran, Islamic Rep. of	872	43.2	8.9	45.2	43.2	2.2	0.5	45.8	40.8
Ireland	678	45.8	9.9	43.7	45.8	0.5	0.1	43.0	48.6
Israel	790	50.2	5.3	41.7	50.2	1.8	1.1	48.2	52.1
Italy	627	30.3	22.8	44.7	30.3	2.2	0.0	28.2	32.1
Japan	671	61.5	5.5	32.0	61.5	1.0	0.0	62.8	60.1
Jordan	1122	36.6	1.5	60.3	36.6	1.1	0.5	44.0	28.6
Kazakhstan	696	45.0	6.9	45.7	45.0	2.1	0.3	48.5	41.9
Korea, Rep. of	749	68.7	3.5	27.3	68.7	0.5	0.0	69.1	68.3
Kuwait	618	24.8	1.6	68.8	24.8	4.1	0.7	25.3	24.3
Lebanon	551	30.3	4.4	58.8	30.3	4.6	1.9	33.0	26.9
Lithuania	619	43.8	12.3	43.2	43.8	0.6	0.0	43.4	44.4
Malaysia	1389	53.0	4.8	39.3	53.0	2.4	0.5	55.6	50.6
Malta	547	48.1	6.1	44.2	48.1	0.9	0.7	51.2	45.0
Morocco	1887	17.5	8.7	69.3	17.5	3.9	0.5	19.7	15.4
New Zealand	1184	36.0	15.9	46.3	36.0	1.1	0.6	35.9	36.2
Norway	653	33.5	15.0	49.1	33.5	1.6	0.8	32.8	34.1
Oman	1272	40.9	8.0	48.6	40.9	1.9	0.6	44.5	37.8
Qatar	761	36.1	5.0	57.1	36.1	1.1	0.7	38.9	33.1
Russian Federation	686	58.0	15.4	25.4	58.0	1.2	0.0	56.7	59.1
Saudi Arabia	542	19.7	4.0	75.0	19.7	1.1	0.2	25.0	14.2
Singapore	869	69.9	5.0	24.9	69.9	0.1	0.1	71.5	68.3
Slovenia	612	51.2	11.1	37.6	51.2	0.0	0.0	56.3	46.5
South Africa	1794	16.7	1.3	78.8	16.7	1.8	1.4	17.8	15.5
Sweden	588	41.1	8.4	46.9	41.1	3.3	0.4	44.0	37.9
Thailand	928	39.2	5.5	52.5	39.2	2.5	0.3	42.2	35.7
Turkey	868	48.9	2.6	47.3	48.9	0.7	0.5	54.1	44.3
United Arab Emirates	2588	42.8	5.7	50.1	42.8	1.0	0.4	48.4	37.4
United States	1463	52.0	9.3	36.9	52.0	1.1	0.7	52.9	51.0
International Avg (n=39)	36032	42.0	7.6	48.3	42.0	1.6	0.5	43.6	40.5
Buenos Aires, Argentina	468	15.9	5.7	62.1	15.9	12.3	4.0	13.3	18.9
Ontario, Canada	643	48.6	7.3	41.4	48.6	1.5	1.3	50.5	46.9
Quebec, Canada	568	28.8	26.5	41.6	28.8	3.1	0.0	26.8	30.9
Norway (8)	689	28.5	13.8	55.7	28.5	1.8	0.3	30.3	26.9
Abu Dhabi, UAE	698	37.6	4.8	57.0	37.6	0.4	0.2	46.4	29.3
Dubai, UAE	885	50.8	6.4	41.8	50.8	0.9	0.1	51.4	50.2
Florida, US	301	50.5	9.0	39.0	50.5	0.8	0.7	49.0	51.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S09_07 (S052282): Chemistry / Knowing Type: MC Key: C
Label: Property of acid and base

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	41.4	16.9	13.2	41.4	25.1	3.0	0.3	38.0	44.9
Bahrain	707	26.2	8.4	25.3	26.2	37.4	2.4	0.2	31.6	21.5
Botswana	851	28.7	5.7	23.6	28.7	38.8	1.4	1.8	30.7	26.8
Canada	1246	41.0	14.1	13.7	41.0	28.5	2.0	0.8	38.7	43.0
Chile	676	32.8	23.6	22.0	32.8	15.4	5.5	0.8	25.2	39.4
Chinese Taipei	810	83.5	4.4	2.4	83.5	9.5	0.0	0.2	84.7	82.3
Egypt	1114	18.6	6.2	25.1	18.6	48.2	1.5	0.4	18.7	18.4
England	687	42.0	11.1	8.1	42.0	35.7	2.3	0.8	38.1	45.9
Georgia	581	40.7	4.7	16.4	40.7	34.7	2.9	0.7	40.9	40.5
Hong Kong SAR	590	85.6	4.8	2.3	85.6	6.9	0.3	0.0	87.3	84.2
Hungary	691	52.3	5.3	4.4	52.3	36.3	1.1	0.5	49.7	54.7
Iran, Islamic Rep. of	871	30.6	15.7	19.0	30.6	31.8	2.2	0.7	30.0	31.2
Ireland	678	48.4	8.1	11.5	48.4	30.8	1.0	0.1	50.3	46.6
Israel	790	36.5	14.9	15.1	36.5	28.6	3.8	1.1	35.0	37.8
Italy	627	42.7	18.5	18.9	42.7	15.9	4.0	0.0	41.2	44.0
Japan	671	50.0	8.1	7.5	50.0	34.0	0.5	0.0	51.0	49.0
Jordan	1122	23.5	4.2	12.6	23.5	57.4	1.8	0.5	28.9	17.7
Kazakhstan	696	55.4	4.5	16.5	55.4	22.2	1.1	0.3	56.4	54.6
Korea, Rep. of	749	53.4	9.3	4.4	53.4	22.0	10.9	0.0	50.4	56.2
Kuwait	618	27.4	19.7	32.6	27.4	14.2	5.4	0.7	29.4	25.4
Lebanon	545	28.9	7.3	16.0	28.9	36.9	8.6	2.3	27.6	30.6
Lithuania	619	63.5	3.4	7.5	63.5	23.4	2.2	0.0	66.9	59.9
Malaysia	1389	41.4	13.3	8.5	41.4	35.4	0.8	0.6	45.9	37.3
Malta	547	38.5	13.6	12.1	38.5	32.9	2.0	0.9	33.7	43.3
Morocco	1887	23.9	9.6	46.0	23.9	16.5	3.4	0.5	25.4	22.5
New Zealand	1184	34.0	18.8	19.5	34.0	24.8	2.2	0.6	30.3	37.9
Norway	653	39.5	12.9	28.9	39.5	14.3	3.6	0.8	38.1	40.6
Oman	1273	22.7	4.3	14.2	22.7	56.3	1.8	0.7	25.0	20.7
Qatar	762	32.9	9.9	22.9	32.9	31.8	1.8	0.7	32.2	33.6
Russian Federation	686	60.6	3.8	6.2	60.6	28.3	1.1	0.0	64.9	57.0
Saudi Arabia	539	18.6	7.4	41.5	18.6	31.4	0.9	0.2	21.0	16.1
Singapore	869	60.5	15.1	12.3	60.5	11.6	0.4	0.1	63.7	57.5
Slovenia	612	75.2	1.9	8.8	75.2	10.1	4.0	0.0	73.7	76.6
South Africa	1794	21.6	10.7	21.5	21.6	41.8	2.9	1.6	22.1	21.0
Sweden	589	63.6	4.8	16.4	63.6	9.9	4.6	0.7	67.1	59.6
Thailand	928	40.0	7.9	7.8	40.0	42.8	1.1	0.3	43.3	36.2
Turkey	868	65.1	11.8	9.4	65.1	12.8	0.5	0.5	73.4	57.6
United Arab Emirates	2588	36.6	11.2	19.1	36.6	30.5	2.2	0.4	37.6	35.6
United States	1463	44.8	15.2	19.8	44.8	17.3	2.0	0.8	43.8	45.9
International Avg (n=39)	36020	42.9	10.0	16.2	42.9	27.8	2.5	0.6	43.4	42.4
Buenos Aires, Argentina	446	21.6	15.9	19.2	21.6	18.6	20.8	3.8	19.9	23.5
Ontario, Canada	643	46.5	18.6	14.9	46.5	16.0	2.7	1.3	45.7	47.2
Quebec, Canada	563	29.0	6.3	10.2	29.0	53.4	1.1	0.0	25.9	32.4
Norway (8)	689	38.1	11.3	31.1	38.1	14.8	4.4	0.3	38.5	37.8
Abu Dhabi, UAE	698	33.5	12.5	19.6	33.5	32.1	2.1	0.2	37.0	30.1
Dubai, UAE	885	48.0	10.7	15.5	48.0	24.6	1.2	0.1	47.6	48.5
Florida, US	301	45.5	12.3	22.5	45.5	17.4	1.3	1.1	44.0	46.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S09_08 (S052299): Chemistry / Knowing Type: MC Key: B
Label: Process that makes statue dark

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	48.0	5.2	48.0	13.1	31.1	2.0	0.7	45.4	50.7
Bahrain	707	58.0	6.5	58.0	6.9	27.9	0.4	0.2	70.0	47.6
Botswana	851	36.4	10.0	36.4	23.8	26.7	0.7	2.4	39.3	33.7
Canada	1245	56.9	4.6	56.9	12.6	24.2	0.5	1.3	56.3	57.5
Chile	676	76.4	2.9	76.4	5.8	12.0	1.5	1.4	82.0	71.4
Chinese Taipei	810	89.1	0.6	89.1	0.8	9.2	0.2	0.2	91.4	87.0
Egypt	1115	44.3	10.2	44.3	15.3	28.6	1.2	0.4	45.2	43.2
England	687	53.5	4.8	53.5	9.1	31.2	0.4	0.8	50.7	56.5
Georgia	581	76.6	5.3	76.6	7.9	8.9	0.6	0.7	83.4	71.4
Hong Kong SAR	590	74.1	1.6	74.1	0.7	23.5	0.1	0.0	72.6	75.3
Hungary	691	72.9	4.0	72.9	9.1	13.4	0.1	0.5	69.0	76.4
Iran, Islamic Rep. of	871	40.1	7.7	40.1	6.9	42.9	1.2	1.1	41.1	39.2
Ireland	678	50.8	3.9	50.8	9.9	34.7	0.6	0.1	44.9	56.7
Israel	790	55.5	5.9	55.5	10.2	26.1	1.0	1.2	54.2	56.8
Italy	627	78.2	2.8	78.2	10.2	8.5	0.3	0.0	76.6	79.6
Japan	671	89.5	1.4	89.5	3.1	5.8	0.1	0.0	90.2	88.9
Jordan	1122	66.5	3.7	66.5	7.3	20.2	1.9	0.5	73.0	59.4
Kazakhstan	696	70.7	5.2	70.7	10.1	12.1	1.3	0.5	70.9	70.6
Korea, Rep. of	749	63.6	1.7	63.6	4.4	30.3	0.0	0.0	63.4	63.9
Kuwait	618	49.7	10.9	49.7	10.6	25.6	2.4	1.0	48.0	51.4
Lebanon	547	42.6	11.4	42.6	20.5	15.6	7.0	2.9	44.1	40.8
Lithuania	619	65.2	3.8	65.2	19.0	11.0	1.0	0.0	64.2	66.2
Malaysia	1389	57.2	8.6	57.2	9.7	22.4	1.3	0.8	61.6	53.2
Malta	547	48.9	7.6	48.9	17.6	23.6	1.5	0.9	46.2	51.5
Morocco	1885	36.1	11.8	36.1	15.5	33.5	2.6	0.5	39.1	33.3
New Zealand	1184	45.3	4.9	45.3	12.5	35.7	0.8	0.8	40.1	50.9
Norway	653	40.6	5.3	40.6	22.9	27.0	3.5	0.8	42.6	38.9
Oman	1273	41.7	6.8	41.7	6.0	43.6	1.2	0.8	45.1	38.7
Qatar	762	58.3	5.0	58.3	9.6	25.3	1.1	0.7	61.9	54.6
Russian Federation	686	82.6	1.6	82.6	7.8	6.9	0.9	0.2	82.2	83.0
Saudi Arabia	540	38.9	10.8	38.9	12.1	37.4	0.7	0.2	43.3	34.3
Singapore	869	74.9	0.4	74.9	3.2	21.2	0.0	0.2	75.5	74.4
Slovenia	612	65.7	2.4	65.7	10.7	20.2	1.0	0.0	64.5	66.8
South Africa	1794	34.0	28.2	34.0	17.3	16.0	2.6	1.9	35.6	32.3
Sweden	588	48.4	6.1	48.4	10.9	29.2	4.6	0.8	45.9	51.1
Thailand	928	43.7	22.2	43.7	10.0	21.6	2.0	0.4	44.7	42.6
Turkey	868	53.7	8.1	53.7	9.1	28.2	0.4	0.5	56.9	50.8
United Arab Emirates	2588	56.3	5.3	56.3	10.1	26.6	1.3	0.4	58.3	54.4
United States	1463	64.9	2.4	64.9	9.5	21.2	1.1	1.0	64.1	65.7
International Avg (n=39)	36020	57.7	6.4	57.7	10.6	23.3	1.3	0.7	58.6	56.9
Buenos Aires, Argentina	462	62.4	2.8	62.4	4.4	19.7	7.1	3.7	65.0	59.3
Ontario, Canada	643	49.1	5.0	49.1	14.8	28.6	0.5	2.0	47.0	50.9
Quebec, Canada	563	73.3	2.9	73.3	8.9	14.4	0.4	0.1	72.7	73.9
Norway (8)	689	30.8	8.0	30.8	23.1	36.7	1.0	0.3	31.6	29.9
Abu Dhabi, UAE	698	49.4	6.2	49.4	13.1	29.8	1.4	0.2	55.1	44.0
Dubai, UAE	885	66.2	3.8	66.2	6.4	22.6	0.8	0.1	66.4	66.0
Florida, US	301	60.6	3.0	60.6	8.9	24.1	1.8	1.6	57.3	63.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S09_09 (S052144): Physics / Knowing Type: MC Key: D
Label: Easy to compress gases

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	56.8	19.8	14.2	7.2	56.8	1.3	0.7	59.7	53.9
Bahrain	707	48.4	18.5	18.4	12.9	48.4	1.4	0.3	57.5	40.5
Botswana	851	46.0	26.1	14.5	9.5	46.0	1.2	2.8	49.4	42.7
Canada	1245	62.4	16.1	13.6	5.8	62.4	0.6	1.5	64.7	60.4
Chile	676	30.2	29.4	24.0	12.4	30.2	2.6	1.4	32.5	28.3
Chinese Taipei	810	29.3	43.4	19.8	7.2	29.3	0.2	0.2	27.4	31.0
Egypt	1115	38.9	19.6	18.3	21.1	38.9	1.6	0.4	37.8	40.1
England	687	67.6	12.9	11.6	6.7	67.6	0.3	0.8	65.8	69.5
Georgia	581	47.6	23.1	17.1	8.7	47.6	2.5	1.0	50.1	45.7
Hong Kong SAR	590	63.8	18.5	11.0	6.1	63.8	0.6	0.0	63.2	64.2
Hungary	691	51.7	17.5	18.0	11.2	51.7	1.1	0.5	47.9	55.2
Iran, Islamic Rep. of	871	40.0	25.6	19.0	12.0	40.0	1.9	1.5	39.7	40.2
Ireland	678	52.1	23.0	13.6	10.8	52.1	0.4	0.1	52.4	51.8
Israel	790	65.9	12.8	10.8	7.9	65.9	1.4	1.2	68.0	64.0
Italy	627	49.2	20.2	15.3	13.4	49.2	1.9	0.0	51.6	47.0
Japan	671	32.1	39.2	16.4	11.8	32.1	0.4	0.0	27.9	36.4
Jordan	1122	42.8	22.6	15.9	16.2	42.8	1.6	0.9	49.1	36.0
Kazakhstan	696	51.8	17.9	17.9	10.6	51.8	1.2	0.6	50.4	53.0
Korea, Rep. of	749	38.2	35.2	17.7	8.8	38.2	0.0	0.0	33.4	42.8
Kuwait	618	32.7	24.3	23.3	15.2	32.7	3.4	1.2	37.0	28.5
Lebanon	539	34.1	20.4	18.1	15.8	34.1	8.5	3.1	36.0	31.8
Lithuania	619	55.0	19.4	18.2	6.2	55.0	1.0	0.2	58.4	51.4
Malaysia	1389	39.3	18.6	32.3	7.1	39.3	1.2	1.5	39.0	39.7
Malta	547	62.0	12.1	14.7	8.5	62.0	1.8	0.9	62.9	61.1
Morocco	1885	32.1	18.6	23.9	21.4	32.1	3.1	0.9	33.5	30.7
New Zealand	1184	62.7	15.8	13.6	5.9	62.7	1.0	1.0	62.2	63.3
Norway	653	42.9	19.8	16.3	17.0	42.9	2.4	1.5	45.9	40.4
Oman	1273	48.7	19.2	17.7	11.5	48.7	1.9	1.0	54.9	43.3
Qatar	762	50.9	17.6	19.8	8.4	50.9	2.3	1.0	56.8	44.7
Russian Federation	686	65.2	10.9	15.7	6.9	65.2	1.1	0.2	63.8	66.4
Saudi Arabia	541	43.7	19.4	20.3	15.0	43.7	1.4	0.2	52.0	35.1
Singapore	869	79.6	10.1	6.2	3.7	79.6	0.2	0.2	80.9	78.5
Slovenia	612	63.9	19.8	5.6	9.7	63.9	1.1	0.0	65.2	62.6
South Africa	1794	42.9	22.8	14.2	14.9	42.9	3.1	2.1	47.8	37.9
Sweden	588	51.5	13.8	16.7	13.2	51.5	3.8	1.0	51.7	51.2
Thailand	928	27.9	43.3	12.0	15.0	27.9	1.2	0.6	29.0	26.6
Turkey	868	50.3	28.9	12.1	7.5	50.3	0.6	0.6	52.4	48.4
United Arab Emirates	2588	54.6	14.3	19.0	10.6	54.6	1.2	0.4	57.9	51.3
United States	1463	55.9	18.5	17.9	5.4	55.9	1.3	1.1	55.9	55.9
International Avg (n=39)	36013	49.0	21.3	16.5	10.7	49.0	1.6	0.8	50.6	47.5
Buenos Aires, Argentina	453	31.5	25.6	13.1	13.4	31.5	12.6	3.8	33.9	28.7
Ontario, Canada	643	67.5	12.8	12.2	4.8	67.5	0.4	2.3	71.0	64.4
Quebec, Canada	562	48.5	24.8	18.5	7.1	48.5	1.0	0.1	48.6	48.4
Norway (8)	689	35.2	22.8	21.6	16.6	35.2	3.4	0.4	39.6	31.3
Abu Dhabi, UAE	698	49.6	16.0	20.4	12.4	49.6	1.3	0.4	56.0	43.5
Dubai, UAE	885	64.8	11.9	15.3	7.1	64.8	0.8	0.1	65.3	64.3
Florida, US	301	66.0	13.5	12.2	4.2	66.0	2.0	2.1	67.6	64.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S09_10 (S052214): Physics / Reasoning Type: CR 1 Point
Label: Recognize liquids from density

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	42.8	52.5	42.8	4.0	0.7	41.7	43.9
Bahrain	705	27.7	64.7	27.7	7.2	0.4	26.2	29.0
Botswana	852	18.5	75.5	18.5	2.5	3.5	20.3	16.7
Canada	1251	55.3	39.4	55.3	3.9	1.4	52.3	58.0
Chile	676	26.1	51.3	26.1	20.9	1.8	23.1	28.7
Chinese Taipei	810	63.7	31.6	63.7	4.5	0.2	64.8	62.7
Egypt	1115	19.6	69.6	19.6	10.3	0.5	18.3	21.1
England	687	49.9	46.8	49.9	2.5	0.8	46.2	53.9
Georgia	581	39.8	43.4	39.8	15.8	1.0	34.0	44.3
Hong Kong SAR	590	62.1	36.7	62.1	1.2	0.0	63.1	61.3
Hungary	691	58.4	38.0	58.4	3.1	0.5	52.8	63.4
Iran, Islamic Rep. of	871	28.9	57.4	28.9	12.2	1.5	28.7	29.0
Ireland	678	54.1	44.8	54.1	1.0	0.1	51.8	56.4
Israel	790	47.4	43.1	47.4	8.2	1.4	47.7	47.1
Italy	627	42.8	47.9	42.8	9.2	0.1	36.7	48.1
Japan	671	66.5	30.3	66.5	3.2	0.0	68.1	64.7
Jordan	1122	25.2	67.6	25.2	6.2	0.9	23.3	27.2
Kazakhstan	696	54.0	39.3	54.0	6.0	0.7	56.2	52.1
Korea, Rep. of	749	71.2	26.1	71.2	2.6	0.0	74.6	68.1
Kuwait	617	18.6	66.2	18.6	14.0	1.2	19.7	17.6
Lebanon	551	26.8	56.9	26.8	13.0	3.2	30.8	21.9
Lithuania	619	52.4	45.7	52.4	1.8	0.2	52.1	52.7
Malaysia	1389	42.2	52.1	42.2	4.1	1.5	40.5	43.8
Malta	547	46.8	46.8	46.8	5.4	0.9	49.0	44.7
Morocco	1885	11.3	77.8	11.3	9.8	1.1	13.0	9.8
New Zealand	1184	46.5	49.4	46.5	2.8	1.4	44.4	48.8
Norway	653	54.0	40.2	54.0	4.3	1.5	53.8	54.2
Oman	1273	31.5	63.0	31.5	4.5	1.1	31.4	31.5
Qatar	762	32.7	61.5	32.7	4.9	1.0	34.1	31.2
Russian Federation	686	66.5	28.6	66.5	4.7	0.2	66.6	66.4
Saudi Arabia	542	22.0	68.4	22.0	9.4	0.2	25.8	18.2
Singapore	869	70.0	29.5	70.0	0.3	0.2	68.4	71.5
Slovenia	612	65.0	32.5	65.0	2.5	0.0	64.7	65.2
South Africa	1794	15.3	78.5	15.3	4.0	2.1	13.6	17.0
Sweden	589	54.2	38.8	54.2	5.4	1.7	53.7	54.7
Thailand	928	27.0	62.2	27.0	10.1	0.7	24.5	29.9
Turkey	868	41.2	49.2	41.2	8.8	0.8	44.1	38.6
United Arab Emirates	2588	37.8	56.0	37.8	5.6	0.6	39.1	36.5
United States	1463	55.4	41.3	55.4	2.1	1.1	52.8	58.3
International Avg (n=39)	36031	42.9	50.0	42.9	6.2	0.9	42.4	43.3
Buenos Aires, Argentina	468	19.7	43.4	19.7	31.1	5.8	20.2	19.1
Ontario, Canada	643	55.4	38.9	55.4	3.3	2.3	53.4	57.1
Quebec, Canada	568	53.0	40.9	53.0	6.0	0.1	47.4	58.8
Norway (8)	689	49.6	42.8	49.6	7.1	0.4	49.7	49.3
Abu Dhabi, UAE	698	31.6	61.9	31.6	5.8	0.8	33.8	29.4
Dubai, UAE	885	51.4	44.6	51.4	3.9	0.1	50.3	52.5
Florida, US	301	48.8	44.4	48.8	4.4	2.4	46.5	50.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S09_12 (S052101): Earth Science / Reasoning Type: CR 1 Point
Label: Information from volcanic eruption

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	46.4	44.1	46.4	8.5	1.0	45.6	47.2
Bahrain	705	35.5	45.3	35.5	18.6	0.7	44.2	27.9
Botswana	852	21.4	64.9	21.4	8.3	5.4	21.2	21.5
Canada	1251	44.4	44.0	44.4	8.9	2.8	46.3	42.7
Chile	676	23.1	40.9	23.1	33.9	2.1	23.1	23.2
Chinese Taipei	810	45.0	44.2	45.0	10.6	0.2	48.2	42.1
Egypt	1115	15.1	58.8	15.1	25.5	0.6	16.7	13.3
England	687	47.3	42.0	47.3	9.7	1.1	44.4	50.3
Georgia	581	21.6	36.5	21.6	40.2	1.6	22.2	21.2
Hong Kong SAR	590	22.7	70.0	22.7	7.3	0.0	23.8	21.7
Hungary	691	30.1	46.2	30.1	23.1	0.6	28.8	31.3
Iran, Islamic Rep. of	871	27.3	44.0	27.3	25.3	3.4	30.9	24.1
Ireland	678	42.1	50.3	42.1	7.1	0.4	44.5	39.8
Israel	790	42.2	32.8	42.2	23.1	1.9	39.9	44.2
Italy	626	24.6	43.9	24.6	30.6	0.9	28.3	21.3
Japan	671	55.9	31.4	55.9	12.7	0.0	53.8	58.0
Jordan	1122	39.2	40.3	39.2	19.3	1.2	46.1	31.9
Kazakhstan	696	29.5	50.6	29.5	18.6	1.2	31.7	27.7
Korea, Rep. of	749	42.8	48.3	42.8	8.9	0.0	43.5	42.1
Kuwait	618	25.6	44.4	25.6	28.4	1.6	35.3	16.0
Lebanon	550	7.2	28.2	7.2	60.6	4.0	7.8	6.4
Lithuania	619	35.7	48.3	35.7	15.7	0.2	32.3	39.2
Malaysia	1389	19.2	58.0	19.2	20.1	2.6	18.4	20.0
Malta	547	38.6	40.2	38.6	19.9	1.3	40.0	37.2
Morocco	1878	16.4	47.9	16.4	34.0	1.6	19.8	13.0
New Zealand	1184	43.1	43.4	43.1	11.9	1.7	41.4	44.9
Norway	653	27.4	57.6	27.4	13.0	2.0	28.3	26.6
Oman	1270	36.2	48.4	36.2	14.2	1.2	43.3	30.0
Qatar	762	34.4	45.0	34.4	19.0	1.6	39.4	29.1
Russian Federation	686	34.4	37.9	34.4	26.4	1.2	35.6	33.4
Saudi Arabia	542	33.6	42.3	33.6	23.6	0.5	39.5	27.4
Singapore	869	40.6	54.9	40.6	4.2	0.3	39.2	41.9
Slovenia	612	47.3	41.5	47.3	11.1	0.1	49.8	44.9
South Africa	1794	16.0	61.8	16.0	18.8	3.4	17.7	14.3
Sweden	589	33.0	38.5	33.0	26.5	1.9	34.8	31.0
Thailand	928	27.4	53.5	27.4	17.9	1.2	28.9	25.6
Turkey	868	30.8	45.5	30.8	22.1	1.5	31.7	30.1
United Arab Emirates	2588	37.3	47.1	37.3	14.6	1.0	39.6	35.1
United States	1463	41.6	53.0	41.6	3.5	1.9	40.7	42.5
International Avg (n=39)	36020	32.9	46.6	32.9	19.1	1.4	34.5	31.3
Buenos Aires, Argentina	468	9.0	24.8	9.0	55.9	10.3	8.1	10.0
Ontario, Canada	643	42.3	45.0	42.3	9.2	3.6	43.8	41.0
Quebec, Canada	568	44.5	43.9	44.5	9.8	1.8	46.8	42.2
Norway (8)	689	27.0	57.8	27.0	14.2	1.0	28.8	25.4
Abu Dhabi, UAE	698	27.8	55.1	27.8	15.6	1.6	28.5	27.0
Dubai, UAE	885	48.9	38.9	48.9	11.8	0.4	50.1	47.5
Florida, US	301	40.3	50.5	40.3	6.4	2.8	37.6	42.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S09_13 (S052113): Earth Science / Applying Type: MC Key: A
Label: Climate of city near Equator

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	58.3	58.3	15.9	13.2	9.9	1.5	1.2	61.3	55.2
Bahrain	707	37.5	37.5	28.1	19.4	12.8	1.2	0.9	38.1	37.0
Botswana	852	29.3	29.3	28.8	15.9	18.9	1.3	5.8	28.2	30.3
Canada	1248	70.0	70.0	11.9	5.1	9.2	0.9	2.8	68.2	71.6
Chile	676	44.9	44.9	25.5	15.4	9.0	3.1	2.1	43.2	46.4
Chinese Taipei	810	74.9	74.9	10.3	3.9	10.2	0.5	0.2	74.4	75.3
Egypt	1115	30.3	30.3	24.5	21.5	21.6	1.4	0.7	29.7	31.0
England	687	67.9	67.9	14.0	8.8	7.4	0.8	1.1	64.9	70.9
Georgia	581	42.3	42.3	22.0	16.0	14.2	2.0	3.5	41.3	43.0
Hong Kong SAR	590	72.8	72.8	10.5	7.8	8.5	0.3	0.0	67.7	77.0
Hungary	691	61.5	61.5	18.3	8.7	10.2	0.7	0.6	58.9	63.9
Iran, Islamic Rep. of	871	38.4	38.4	25.5	15.6	14.0	2.6	3.8	39.1	37.8
Ireland	678	76.4	76.4	13.3	5.7	3.7	0.5	0.4	74.3	78.4
Israel	790	48.4	48.4	19.4	13.5	14.9	1.4	2.5	46.4	50.1
Italy	627	56.8	56.8	21.2	7.3	10.7	2.6	1.5	57.6	56.1
Japan	671	83.3	83.3	8.8	4.1	3.0	0.6	0.3	84.1	82.4
Jordan	1122	44.5	44.5	22.6	16.2	13.1	2.1	1.4	43.7	45.4
Kazakhstan	696	56.0	56.0	16.1	10.9	14.7	1.2	1.2	54.1	57.7
Korea, Rep. of	749	67.1	67.1	15.5	7.7	9.5	0.2	0.0	62.9	71.0
Kuwait	618	41.1	41.1	26.0	19.0	9.1	2.7	2.1	39.9	42.3
Lebanon	551	38.9	38.9	25.5	15.1	7.9	7.5	5.2	35.6	43.1
Lithuania	619	56.2	56.2	22.8	8.8	11.8	0.1	0.2	56.5	56.0
Malaysia	1389	39.7	39.7	32.4	12.5	12.0	0.3	3.1	39.1	40.1
Malta	547	47.8	47.8	25.8	12.2	11.6	1.3	1.3	47.6	48.0
Morocco	1887	33.3	33.3	31.1	16.9	13.4	3.0	2.3	32.4	34.2
New Zealand	1184	55.4	55.4	18.7	11.1	9.9	2.9	2.1	52.2	58.8
Norway	653	63.1	63.1	12.9	8.8	11.1	1.6	2.6	57.7	67.7
Oman	1273	40.1	40.1	27.7	19.2	9.9	1.6	1.5	37.4	42.5
Qatar	762	48.4	48.4	22.4	14.4	10.8	2.1	1.8	51.6	45.0
Russian Federation	686	56.1	56.1	16.9	8.8	14.9	2.0	1.3	51.3	60.2
Saudi Arabia	541	35.1	35.1	26.4	23.9	13.5	0.5	0.6	35.5	34.6
Singapore	869	77.2	77.2	10.4	5.9	6.3	0.0	0.3	76.9	77.4
Slovenia	612	65.5	65.5	14.5	6.5	12.7	0.8	0.1	60.3	70.2
South Africa	1794	42.3	42.3	23.9	18.0	10.2	2.2	3.5	42.2	42.3
Sweden	589	64.4	64.4	13.1	6.7	9.7	3.3	3.0	66.0	62.5
Thailand	928	33.7	33.7	30.4	11.4	21.2	2.1	1.2	32.5	35.1
Turkey	868	43.2	43.2	20.8	15.9	18.2	0.2	1.6	40.2	46.0
United Arab Emirates	2588	50.6	50.6	21.2	13.6	12.2	1.2	1.1	54.2	47.2
United States	1463	63.9	63.9	13.9	8.2	11.2	0.7	2.0	62.5	65.4
International Avg (n=39)	36032	52.7	52.7	20.2	12.1	11.6	1.6	1.7	51.5	53.8
Buenos Aires, Argentina	455	32.8	32.8	16.2	11.9	15.9	12.5	10.7	32.5	33.1
Ontario, Canada	643	70.0	70.0	11.9	5.0	8.0	0.9	4.2	67.5	72.1
Quebec, Canada	565	71.6	71.6	10.7	5.0	10.7	1.2	0.8	70.7	72.5
Norway (8)	689	60.4	60.4	14.7	10.3	11.2	2.3	1.3	57.3	63.3
Abu Dhabi, UAE	698	47.2	47.2	24.6	14.3	11.5	0.7	1.6	53.0	41.8
Dubai, UAE	885	57.6	57.6	16.9	9.5	14.3	1.1	0.6	57.1	58.2
Florida, US	301	51.7	51.7	18.1	11.7	14.3	1.3	2.8	50.2	53.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S09_14 (S052107): Earth Science / Applying Type: MC Key: C
Label: Constellation below horizon

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1450	38.1	30.4	15.8	38.1	12.6	1.6	1.5	37.3	39.0
Bahrain	707	19.6	31.1	19.4	19.6	27.4	1.5	0.9	16.7	22.2
Botswana	852	13.1	29.5	17.5	13.1	30.2	2.8	6.9	13.7	12.6
Canada	1246	40.7	25.2	13.7	40.7	16.1	1.2	3.0	39.1	42.2
Chile	676	23.9	25.7	28.7	23.9	17.1	2.5	2.1	23.5	24.3
Chinese Taipei	810	64.7	11.7	13.0	64.7	9.5	0.9	0.2	63.7	65.7
Egypt	1115	19.8	31.4	18.2	19.8	28.3	1.7	0.7	17.5	22.3
England	687	34.4	33.4	13.7	34.4	15.6	1.5	1.3	32.5	36.5
Georgia	581	23.4	21.7	29.6	23.4	18.7	2.8	3.8	14.3	30.5
Hong Kong SAR	590	50.7	19.8	15.6	50.7	13.5	0.4	0.0	46.8	53.9
Hungary	691	39.4	22.8	19.5	39.4	16.4	1.2	0.6	36.8	41.8
Iran, Islamic Rep. of	872	21.8	20.1	22.5	21.8	27.9	3.5	4.1	19.0	24.4
Ireland	678	33.7	33.4	15.2	33.7	16.1	1.0	0.7	31.0	36.3
Israel	790	32.3	24.4	19.3	32.3	19.9	1.7	2.5	31.6	32.9
Italy	627	37.2	23.1	13.6	37.2	21.7	2.3	2.0	37.6	37.0
Japan	671	69.1	10.6	10.6	69.1	9.3	0.1	0.3	67.0	71.3
Jordan	1122	21.8	28.2	13.4	21.8	33.5	1.5	1.5	21.0	22.6
Kazakhstan	696	43.4	25.2	17.2	43.4	11.1	1.9	1.2	43.9	42.9
Korea, Rep. of	749	53.7	24.5	8.0	53.7	13.6	0.2	0.0	49.4	57.8
Kuwait	618	21.4	30.2	16.8	21.4	25.0	4.3	2.3	20.9	21.9
Lebanon	539	20.7	25.2	19.8	20.7	20.8	7.7	5.7	18.8	23.0
Lithuania	619	31.5	27.3	16.8	31.5	22.6	1.5	0.2	30.3	32.8
Malaysia	1389	29.8	16.1	37.5	29.8	12.4	1.1	3.1	27.8	31.7
Malta	547	27.6	30.3	19.9	27.6	19.4	1.5	1.3	25.2	30.0
Morocco	1877	18.8	24.8	15.6	18.8	35.3	3.0	2.4	17.9	19.7
New Zealand	1184	39.0	30.7	14.8	39.0	12.0	1.0	2.5	33.6	44.8
Norway	653	43.1	26.9	13.3	43.1	13.1	1.0	2.6	39.4	46.2
Oman	1273	22.8	32.3	15.0	22.8	25.6	2.8	1.6	20.9	24.5
Qatar	762	22.3	35.4	20.1	22.3	18.4	1.7	2.1	22.0	22.5
Russian Federation	686	47.0	17.1	18.8	47.0	13.9	1.7	1.4	45.1	48.6
Saudi Arabia	541	18.2	32.5	21.4	18.2	26.2	1.2	0.6	16.0	20.5
Singapore	869	33.2	34.4	15.7	33.2	16.0	0.2	0.3	28.2	38.0
Slovenia	612	43.5	22.5	22.1	43.5	11.2	0.7	0.1	43.0	43.9
South Africa	1794	14.3	29.8	27.6	14.3	23.1	1.5	3.7	14.0	14.7
Sweden	588	44.0	22.4	13.0	44.0	14.3	3.2	3.1	40.3	48.0
Thailand	927	13.6	37.6	26.4	13.6	20.2	0.9	1.3	11.1	16.5
Turkey	868	25.6	24.2	15.1	25.6	32.8	0.6	1.6	25.2	26.1
United Arab Emirates	2588	23.9	33.8	19.6	23.9	19.9	1.6	1.2	22.3	25.4
United States	1463	37.6	32.4	11.1	37.6	15.4	1.3	2.1	33.7	41.7
International Avg (n=39)	36007	32.3	26.6	18.1	32.3	19.4	1.8	1.9	30.2	34.3
Buenos Aires, Argentina	455	29.2	19.3	14.2	29.2	16.9	8.4	12.0	25.6	33.3
Ontario, Canada	643	40.2	26.7	12.8	40.2	14.1	1.7	4.5	38.5	41.6
Quebec, Canada	563	43.6	20.8	14.4	43.6	20.2	0.1	0.9	42.8	44.4
Norway (8)	689	41.1	26.5	13.9	41.1	14.8	2.4	1.3	39.4	42.5
Abu Dhabi, UAE	698	24.3	31.1	17.8	24.3	23.4	1.7	1.6	23.0	25.6
Dubai, UAE	885	25.3	37.6	19.1	25.3	16.4	0.8	0.8	24.2	26.5
Florida, US	301	31.7	36.5	15.9	31.7	12.4	0.3	3.1	33.3	30.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_01 (S062090): Biology / Knowing Type: MC Key: C
Label: Water cycle in forest ecosystem

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	78.8	12.0	5.9	78.8	2.8	0.5	0.1	80.1	77.4
Bahrain	707	56.4	24.5	13.6	56.4	5.0	0.2	0.3	57.6	55.3
Botswana	854	69.8	11.8	10.4	69.8	7.3	0.5	0.1	70.7	68.9
Canada	1238	73.1	13.0	10.2	73.1	3.6	0.1	0.0	74.0	72.4
Chile	695	56.3	20.3	17.5	56.3	4.7	0.9	0.3	57.5	55.4
Chinese Taipei	820	89.3	5.9	1.9	89.3	3.0	0.0	0.0	88.9	89.6
Egypt	1124	42.5	29.5	14.0	42.5	12.4	1.6	0.0	43.9	40.9
England	698	72.0	15.2	9.0	72.0	3.1	0.5	0.2	71.1	73.0
Georgia	583	67.2	18.7	10.4	67.2	2.7	1.0	0.0	67.1	67.3
Hong Kong SAR	586	84.8	6.6	4.8	84.8	3.4	0.3	0.0	85.8	84.0
Hungary	697	68.6	12.8	15.7	68.6	2.1	0.8	0.0	67.2	69.9
Iran, Islamic Rep. of	867	57.2	14.7	19.0	57.2	7.8	1.4	0.0	54.3	59.8
Ireland	664	72.8	16.2	8.6	72.8	2.0	0.4	0.0	73.9	71.7
Israel	798	64.4	16.3	13.1	64.4	4.7	1.0	0.4	63.6	65.3
Italy	631	66.9	15.6	13.8	66.9	3.1	0.5	0.0	67.4	66.5
Japan	672	86.3	7.1	5.4	86.3	1.0	0.2	0.0	86.9	85.8
Jordan	1131	43.8	27.1	18.6	43.8	9.9	0.6	0.0	42.9	44.9
Kazakhstan	0	.	.	.	.	.	.	.	.	.
Korea, Rep. of	759	78.5	11.8	6.7	78.5	2.8	0.2	0.0	81.6	75.6
Kuwait	653	46.1	29.7	15.4	46.1	4.9	3.5	0.3	52.6	40.3
Lebanon	541	50.9	22.2	15.8	50.9	6.6	3.1	1.4	53.0	48.2
Lithuania	618	63.3	11.6	21.5	63.3	3.4	0.3	0.0	65.4	61.2
Malaysia	1394	59.5	18.6	13.7	59.5	7.1	1.1	0.0	62.5	56.8
Malta	540	73.2	12.7	10.3	73.2	2.2	1.3	0.2	75.2	71.1
Morocco	1882	47.4	34.0	11.5	47.4	5.7	1.5	0.0	51.4	43.5
New Zealand	1123	72.4	12.8	11.7	72.4	2.0	0.7	0.4	74.5	70.3
Norway	663	56.4	14.1	26.5	56.4	1.4	1.3	0.2	57.0	55.9
Oman	1268	70.2	17.2	8.0	70.2	3.2	1.3	0.1	77.5	63.9
Qatar	770	53.8	23.4	13.9	53.8	6.8	1.7	0.4	55.4	52.1
Russian Federation	679	79.7	8.1	11.0	79.7	0.8	0.3	0.1	79.4	79.9
Saudi Arabia	539	50.2	28.5	12.6	50.2	8.7	0.0	0.0	56.9	43.1
Singapore	869	85.4	6.5	3.7	85.4	4.1	0.3	0.0	85.8	85.0
Slovenia	604	77.9	10.1	10.1	77.9	1.3	0.7	0.0	75.6	79.8
South Africa	1790	50.3	24.4	13.0	50.3	11.4	0.7	0.2	50.7	49.9
Sweden	578	60.8	13.2	18.0	60.8	4.1	3.8	0.2	59.5	62.2
Thailand	922	56.9	17.7	13.1	56.9	11.9	0.4	0.1	56.5	57.4
Turkey	858	70.0	16.1	8.8	70.0	4.9	0.1	0.1	70.8	69.2
United Arab Emirates	2572	62.6	19.0	13.0	62.6	4.4	1.0	0.0	66.2	58.9
United States	1452	77.3	10.9	8.9	77.3	2.3	0.6	0.1	77.4	77.3
International Avg (n=38)	35315	65.6	16.6	12.1	65.6	4.7	0.9	0.1	66.8	64.5
Buenos Aires, Argentina	452	45.3	16.1	19.8	45.3	9.2	5.2	4.4	46.5	44.2
Ontario, Canada	644	70.5	15.0	10.7	70.5	3.7	0.1	0.0	70.9	70.1
Quebec, Canada	553	77.9	9.6	9.8	77.9	2.6	0.0	0.0	77.1	78.9
Norway (8)	674	54.3	17.3	25.8	54.3	1.7	0.9	0.0	53.8	54.6
Abu Dhabi, UAE	691	57.7	22.0	14.6	57.7	5.0	0.7	0.0	63.3	51.9
Dubai, UAE	887	73.0	12.1	10.7	73.0	3.4	0.7	0.0	74.5	71.4
Florida, US	302	77.2	10.0	6.1	77.2	6.5	0.0	0.2	78.3	76.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_02 (S062274): Biology / Knowing Type: CR 2 Points
Label: Raw materials for photosynthesis

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	8.1	49.1	27.4	57.3	8.1	15.3	0.1	7.9	8.5
Bahrain	708	9.8	51.8	26.7	61.6	9.8	11.5	0.3	9.6	9.9
Botswana	854	6.5	36.7	48.6	43.3	6.5	8.0	0.1	7.0	6.1
Canada	1241	8.6	60.3	21.3	68.9	8.6	9.8	0.0	10.4	6.9
Chile	695	11.6	48.7	14.3	60.3	11.6	25.1	0.3	11.0	12.1
Chinese Taipei	820	19.4	39.0	32.4	58.4	19.4	9.2	0.0	15.1	23.5
Egypt	1124	5.5	36.1	37.5	41.6	5.5	20.8	0.2	5.6	5.4
England	698	10.6	56.1	19.6	66.7	10.6	13.5	0.2	9.6	11.6
Georgia	583	12.8	44.0	13.1	56.8	12.8	30.1	0.0	12.1	13.4
Hong Kong SAR	586	15.0	63.4	18.8	78.5	15.0	2.6	0.0	14.1	15.9
Hungary	697	11.8	50.9	22.8	62.7	11.8	14.5	0.0	10.6	13.0
Iran, Islamic Rep. of	867	5.2	38.6	26.0	43.7	5.2	30.2	0.0	3.0	7.1
Ireland	664	10.1	55.2	22.3	65.3	10.1	12.4	0.0	9.4	10.8
Israel	798	10.9	53.3	18.0	64.1	10.9	17.4	0.4	13.4	8.4
Italy	631	7.8	55.0	21.6	62.8	7.8	15.6	0.0	7.9	7.7
Japan	672	12.8	68.1	16.7	81.0	12.8	2.3	0.0	11.7	14.0
Jordan	1131	6.1	43.4	36.9	49.5	6.1	13.6	0.0	7.2	4.9
Kazakhstan	696	19.5	41.0	27.3	60.5	19.5	12.1	0.1	20.4	18.7
Korea, Rep. of	759	10.4	54.2	29.1	64.6	10.4	6.3	0.0	7.2	13.4
Kuwait	654	10.8	40.6	29.7	51.4	10.8	18.6	0.3	8.8	12.6
Lebanon	548	6.4	39.4	19.4	45.9	6.4	33.2	1.6	6.1	6.8
Lithuania	618	17.0	60.0	14.4	76.9	17.0	8.6	0.0	14.9	19.0
Malaysia	1394	4.6	37.9	40.7	42.5	4.6	16.8	0.0	4.3	5.0
Malta	540	6.6	40.7	26.6	47.3	6.6	25.9	0.2	5.8	7.4
Morocco	1882	2.6	31.4	37.3	34.0	2.6	28.6	0.1	2.6	2.6
New Zealand	1123	15.3	50.6	21.3	66.0	15.3	12.3	0.4	14.6	16.0
Norway	663	15.4	56.2	14.0	71.6	15.4	14.2	0.2	13.6	17.1
Oman	1266	9.5	47.7	33.6	57.2	9.5	9.1	0.1	12.4	6.9
Qatar	770	9.1	46.3	29.1	55.5	9.1	15.0	0.4	10.7	7.5
Russian Federation	679	21.3	51.8	16.4	73.1	21.3	10.4	0.1	19.7	22.7
Saudi Arabia	539	3.1	44.9	34.3	48.1	3.1	17.6	0.0	3.5	2.8
Singapore	869	27.4	52.5	17.3	79.9	27.4	2.8	0.0	24.4	30.4
Slovenia	604	27.0	54.2	15.8	81.2	27.0	3.0	0.0	27.7	26.5
South Africa	1790	6.0	34.8	49.5	40.9	6.0	9.4	0.2	6.8	5.3
Sweden	578	29.8	48.6	11.4	78.4	29.8	10.0	0.2	26.8	32.7
Thailand	922	9.0	43.9	28.6	52.9	9.0	18.3	0.1	9.1	8.9
Turkey	858	8.7	44.6	28.9	53.3	8.7	17.7	0.1	8.6	8.9
United Arab Emirates	2572	13.6	50.9	24.6	64.5	13.6	10.9	0.1	12.3	14.8
United States	1452	8.5	62.9	23.5	71.4	8.5	5.0	0.1	7.0	10.0
International Avg (n=39)	36021	11.7	48.3	25.6	60.0	11.7	14.3	0.2	11.1	12.2
Buenos Aires, Argentina	457	9.0	36.3	17.0	45.3	9.0	32.7	4.9	6.7	11.4
Ontario, Canada	644	7.2	61.0	20.9	68.2	7.2	10.9	0.0	8.9	5.6
Quebec, Canada	556	12.1	58.7	21.9	70.8	12.1	7.3	0.0	13.4	10.8
Norway (8)	674	17.0	52.7	13.7	69.8	17.0	16.6	0.0	17.3	16.9
Abu Dhabi, UAE	691	11.4	48.7	25.8	60.1	11.4	14.1	0.0	13.4	9.2
Dubai, UAE	887	15.7	54.6	21.8	70.3	15.7	7.7	0.2	12.9	18.8
Florida, US	302	10.3	61.3	20.1	71.6	10.3	8.0	0.2	11.6	9.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S10_03 (S062284): Biology / Knowing Type: MC Key: B
Label: Hair color of young rabbits

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	52.7	16.8	52.7	5.2	23.8	1.5	0.1	57.4	47.7
Bahrain	708	46.6	14.0	46.6	8.9	28.1	2.1	0.3	55.3	38.9
Botswana	854	34.6	25.7	34.6	10.1	27.7	1.8	0.1	34.2	34.9
Canada	1237	59.5	12.3	59.5	2.5	25.2	0.4	0.0	64.9	54.5
Chile	695	59.3	11.8	59.3	4.3	22.6	1.6	0.4	70.7	50.3
Chinese Taipei	820	78.0	7.8	78.0	1.1	13.0	0.1	0.0	79.9	76.1
Egypt	1124	31.6	20.1	31.6	10.7	35.4	2.0	0.2	31.6	31.6
England	698	61.6	11.0	61.6	4.3	22.0	0.8	0.2	69.7	52.7
Georgia	583	54.0	14.0	54.0	6.0	24.0	1.7	0.2	60.7	49.0
Hong Kong SAR	586	46.6	9.2	46.6	2.8	40.8	0.5	0.0	50.6	43.0
Hungary	697	68.1	16.4	68.1	1.4	13.3	0.9	0.0	74.7	61.5
Iran, Islamic Rep. of	867	45.2	14.9	45.2	3.1	34.9	1.9	0.0	48.3	42.4
Ireland	664	55.4	16.7	55.4	4.6	22.4	1.0	0.0	62.1	48.6
Israel	798	55.8	9.6	55.8	4.0	29.1	1.2	0.4	60.5	51.1
Italy	631	72.4	13.1	72.4	3.0	10.8	0.6	0.0	75.0	70.1
Japan	672	35.2	13.7	35.2	2.0	48.9	0.3	0.0	38.6	31.6
Jordan	1131	55.8	14.6	55.8	7.8	20.4	1.3	0.0	63.4	47.6
Kazakhstan	696	60.6	18.8	60.6	3.3	15.3	1.9	0.1	65.1	56.5
Korea, Rep. of	759	54.7	8.0	54.7	1.9	35.2	0.2	0.0	59.8	50.0
Kuwait	654	34.9	21.9	34.9	9.1	28.0	5.8	0.3	33.6	35.9
Lebanon	539	33.6	17.6	33.6	12.9	22.9	11.1	1.8	34.8	32.1
Lithuania	618	60.5	18.2	60.5	1.7	18.8	0.8	0.0	70.3	50.8
Malaysia	1394	37.5	14.9	37.5	3.9	43.0	0.7	0.0	42.6	32.9
Malta	540	45.6	20.3	45.6	9.3	22.8	1.7	0.2	46.9	44.3
Morocco	1882	40.1	16.2	40.1	10.1	30.7	2.7	0.2	44.8	35.7
New Zealand	1123	54.9	15.8	54.9	5.2	22.3	1.0	0.7	60.1	49.9
Norway	664	68.5	5.0	68.5	1.7	23.4	1.1	0.2	79.9	57.9
Oman	1268	50.0	16.3	50.0	6.6	25.1	2.0	0.1	54.6	45.9
Qatar	770	39.3	17.9	39.3	9.0	30.0	3.4	0.4	45.6	32.8
Russian Federation	679	67.9	13.3	67.9	2.3	15.1	1.2	0.1	77.1	59.8
Saudi Arabia	538	41.6	24.8	41.6	7.3	25.3	0.9	0.0	41.7	41.6
Singapore	869	63.5	6.5	63.5	2.5	27.3	0.1	0.0	67.3	59.6
Slovenia	604	70.8	18.0	70.8	1.1	9.8	0.4	0.0	78.4	64.6
South Africa	1790	27.1	25.3	27.1	22.8	23.5	1.1	0.2	24.6	29.7
Sweden	578	64.9	8.9	64.9	3.3	19.1	3.5	0.3	71.9	57.9
Thailand	922	61.9	19.3	61.9	4.1	13.8	0.7	0.1	65.2	57.8
Turkey	858	54.6	14.9	54.6	3.3	26.5	0.5	0.1	60.3	48.8
United Arab Emirates	2572	46.5	17.3	46.5	7.8	25.9	2.4	0.1	52.9	40.0
United States	1452	70.3	10.0	70.3	4.1	14.8	0.6	0.3	76.2	64.1
International Avg (n=39)	36010	52.9	15.2	52.9	5.5	24.6	1.6	0.2	57.7	48.2
Buenos Aires, Argentina	449	44.9	22.9	44.9	4.7	15.6	6.7	5.1	49.0	40.7
Ontario, Canada	644	53.6	14.0	53.6	3.4	28.5	0.5	0.0	59.9	47.9
Quebec, Canada	552	78.6	8.0	78.6	0.8	12.3	0.3	0.0	81.8	75.2
Norway (8)	674	60.9	7.1	60.9	3.9	26.7	1.4	0.0	71.1	51.5
Abu Dhabi, UAE	691	43.7	17.4	43.7	9.1	27.6	2.2	0.0	49.5	37.8
Dubai, UAE	887	54.9	14.6	54.9	4.3	23.4	2.4	0.3	61.5	47.8
Florida, US	302	66.9	11.5	66.9	4.7	15.6	0.7	0.5	75.8	57.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_04A (S062098A): Biology / Applying Type: CR 2 Points
Label: Plant and animal cells similar

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	27.6	37.7	17.7	65.3	27.6	16.9	0.1	25.6	29.7
Bahrain	707	42.1	29.9	17.0	72.0	42.1	10.8	0.3	48.8	36.2
Botswana	854	30.1	26.2	39.2	56.3	30.1	4.3	0.1	37.6	23.1
Canada	1241	39.4	33.4	14.9	72.8	39.4	12.3	0.0	40.3	38.5
Chile	695	8.2	18.4	26.2	26.6	8.2	46.8	0.4	8.8	7.7
Chinese Taipei	820	39.3	25.6	14.3	64.9	39.3	20.8	0.0	38.1	40.5
Egypt	1124	15.3	8.4	46.9	23.6	15.3	29.3	0.2	17.2	13.0
England	698	32.5	40.6	13.1	73.1	32.5	13.6	0.2	29.6	35.7
Georgia	583	17.1	20.4	19.9	37.5	17.1	42.4	0.2	12.0	20.9
Hong Kong SAR	586	28.5	30.9	22.3	59.5	28.5	18.2	0.0	26.2	30.6
Hungary	697	19.5	22.6	20.2	42.1	19.5	37.7	0.0	18.5	20.5
Iran, Islamic Rep. of	867	15.9	15.2	25.6	31.1	15.9	43.3	0.0	18.8	13.2
Ireland	664	37.3	34.9	14.6	72.3	37.3	13.1	0.0	41.6	33.0
Israel	798	38.4	17.7	16.3	56.1	38.4	27.2	0.4	42.8	34.0
Italy	630	18.4	23.4	11.6	41.8	18.4	46.6	0.0	19.9	16.9
Japan	672	54.7	24.9	12.1	79.6	54.7	8.3	0.0	53.5	55.9
Jordan	1131	13.7	18.9	46.0	32.6	13.7	21.4	0.0	17.5	9.6
Kazakhstan	696	28.6	25.1	29.1	53.8	28.6	16.9	0.2	30.4	27.0
Korea, Rep. of	759	21.2	36.1	26.9	57.3	21.2	15.7	0.0	17.5	24.6
Kuwait	654	10.4	11.9	48.7	22.3	10.4	28.6	0.5	9.8	11.0
Lebanon	548	18.7	7.9	22.6	26.6	18.7	48.9	1.8	21.7	14.9
Lithuania	618	33.0	24.7	13.8	57.7	33.0	28.5	0.0	40.1	26.0
Malaysia	1394	35.4	22.1	28.9	57.5	35.4	13.6	0.0	43.1	28.4
Malta	540	33.1	14.4	27.0	47.5	33.1	25.3	0.2	39.7	26.5
Morocco	1882	13.1	10.6	34.8	23.7	13.1	41.3	0.2	15.8	10.6
New Zealand	1123	30.5	31.0	23.3	61.5	30.5	14.3	0.9	33.3	27.7
Norway	663	13.7	26.4	29.7	40.1	13.7	29.9	0.2	14.5	13.0
Oman	1264	34.5	30.0	25.6	64.6	34.5	9.6	0.2	40.6	29.3
Qatar	770	34.3	32.1	19.1	66.4	34.3	14.1	0.4	41.4	27.0
Russian Federation	679	38.7	21.0	11.9	59.7	38.7	28.3	0.1	42.7	35.1
Saudi Arabia	539	11.3	19.0	44.7	30.3	11.3	25.1	0.0	13.2	9.3
Singapore	869	76.2	15.8	5.4	92.0	76.2	2.6	0.0	80.6	71.7
Slovenia	604	60.0	24.3	6.6	84.3	60.0	9.1	0.0	62.6	57.9
South Africa	1790	20.4	21.8	50.9	42.2	20.4	6.7	0.3	24.0	16.8
Sweden	578	14.5	28.9	22.3	43.4	14.5	34.0	0.3	15.9	13.2
Thailand	922	18.0	25.2	30.1	43.2	18.0	26.6	0.1	19.0	16.8
Turkey	858	25.8	28.8	24.9	54.6	25.8	20.4	0.1	28.3	23.3
United Arab Emirates	2572	38.2	30.2	18.9	68.4	38.2	12.6	0.1	46.2	30.0
United States	1452	41.0	35.7	16.9	76.7	41.0	6.1	0.3	41.2	40.9
International Avg (n=39)	36017	28.9	24.4	24.1	53.4	28.9	22.3	0.2	31.2	26.7
Buenos Aires, Argentina	457	6.1	6.2	13.7	12.3	6.1	67.7	6.3	5.1	7.0
Ontario, Canada	644	39.7	33.1	15.1	72.7	39.7	12.1	0.0	43.1	36.6
Quebec, Canada	556	39.6	32.0	15.5	71.7	39.6	12.7	0.1	35.8	43.6
Norway (8)	674	22.7	26.4	23.6	49.1	22.7	27.3	0.0	25.5	20.1
Abu Dhabi, UAE	691	38.0	28.3	19.4	66.3	38.0	14.3	0.0	53.1	22.5
Dubai, UAE	887	41.5	32.5	16.6	74.0	41.5	9.1	0.3	42.7	40.1
Florida, US	302	35.8	38.7	14.0	74.5	35.8	11.1	0.5	37.0	34.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S10_04B (S062098B): Biology / Applying Type: CR 2 Points
Label: Plant and animal cells different

COUNTRY	N	20 %	10 %	70 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	10.4	16.6	9.7	41.0	27.1	10.4	22.0	0.2	11.0	9.8
Bahrain	707	12.0	18.8	36.1	21.1	30.8	12.0	11.7	0.3	14.1	10.1
Botswana	854	7.0	22.5	4.4	61.2	29.6	7.0	4.5	0.3	8.6	5.6
Canada	1241	13.3	21.6	6.2	43.4	34.9	13.3	15.4	0.0	16.0	10.8
Chile	695	2.0	6.9	3.2	38.1	8.9	2.0	49.4	0.4	1.8	2.2
Chinese Taipei	820	15.4	16.5	30.2	16.8	31.9	15.4	21.2	0.0	15.8	15.0
Egypt	1124	4.7	7.8	1.8	51.4	12.5	4.7	34.2	0.2	5.7	3.6
England	698	8.1	17.1	9.6	44.5	25.2	8.1	20.5	0.2	6.8	9.5
Georgia	583	2.2	4.6	5.2	38.8	6.8	2.2	49.0	0.2	1.9	2.4
Hong Kong SAR	586	10.7	27.3	9.1	33.2	38.0	10.7	19.6	0.0	6.2	14.6
Hungary	697	2.4	14.4	3.5	38.9	16.8	2.4	40.8	0.0	3.4	1.4
Iran, Islamic Rep. of	867	1.6	8.3	1.8	40.5	9.9	1.6	47.8	0.0	1.7	1.6
Ireland	664	10.9	26.0	9.2	37.4	36.9	10.9	16.5	0.0	14.4	7.4
Israel	798	10.3	10.3	15.7	32.6	20.7	10.3	30.6	0.5	13.2	7.5
Italy	631	1.1	5.8	7.8	31.5	6.9	1.1	53.8	0.0	1.8	0.5
Japan	672	17.8	20.6	30.7	21.4	38.4	17.8	9.5	0.0	22.1	13.3
Jordan	1131	3.9	10.8	4.0	57.8	14.7	3.9	23.4	0.0	5.8	1.8
Kazakhstan	696	20.9	29.7	0.7	30.6	50.6	20.9	17.9	0.2	21.8	20.0
Korea, Rep. of	759	6.3	23.1	3.7	48.2	29.4	6.3	18.7	0.0	4.2	8.3
Kuwait	654	6.1	17.1	2.4	45.8	23.2	6.1	28.2	0.5	5.3	6.8
Lebanon	546	3.4	5.0	2.5	30.9	8.3	3.4	56.3	2.0	3.4	3.4
Lithuania	618	9.1	21.1	10.1	23.8	30.2	9.1	35.9	0.0	10.4	7.7
Malaysia	1394	17.3	16.0	13.4	37.9	33.3	17.3	15.3	0.1	22.9	12.2
Malta	540	16.3	13.0	5.5	37.0	29.3	16.3	28.0	0.2	20.3	12.2
Morocco	1882	0.3	7.4	0.0	44.6	7.7	0.3	47.4	0.3	0.4	0.2
New Zealand	1123	11.8	19.6	7.2	43.5	31.4	11.8	16.9	0.9	15.9	7.9
Norway	664	0.3	5.4	2.8	51.3	5.7	0.3	39.9	0.2	0.4	0.3
Oman	1250	11.1	12.1	33.1	32.9	23.3	11.1	10.5	0.3	13.5	9.0
Qatar	770	13.6	16.1	19.1	33.4	29.7	13.6	17.4	0.5	14.7	12.5
Russian Federation	679	25.5	17.3	0.0	20.4	42.8	25.5	36.6	0.1	30.5	21.2
Saudi Arabia	539	8.2	15.4	7.3	41.7	23.6	8.2	27.4	0.0	13.4	2.9
Singapore	869	51.4	28.8	5.0	11.7	80.2	51.4	3.0	0.0	57.1	45.7
Slovenia	604	20.4	20.5	23.5	22.5	40.9	20.4	13.1	0.0	24.8	16.9
South Africa	1790	5.9	16.0	6.8	62.2	21.9	5.9	8.8	0.3	7.1	4.5
Sweden	578	1.7	11.4	2.6	45.4	13.0	1.7	38.6	0.3	2.3	1.0
Thailand	922	3.4	8.2	14.7	45.2	11.6	3.4	28.4	0.1	3.7	3.0
Turkey	858	12.3	26.7	8.1	33.2	39.0	12.3	19.6	0.1	16.0	8.5
United Arab Emirates	2572	16.2	19.7	19.1	30.6	36.0	16.2	14.1	0.2	19.9	12.5
United States	1452	12.1	23.5	13.8	42.0	35.6	12.1	8.0	0.6	11.7	12.5
International Avg (n=39)	36003	10.4	16.1	10.0	37.5	26.6	10.4	25.6	0.2	12.1	8.9
Buenos Aires, Argentina	458	1.1	3.3	2.3	18.1	4.4	1.1	67.8	7.4	0.9	1.3
Ontario, Canada	644	14.0	23.2	5.4	42.3	37.3	14.0	15.0	0.0	17.6	10.8
Quebec, Canada	556	10.2	21.2	9.2	42.1	31.4	10.2	17.1	0.1	10.3	10.1
Norway (8)	674	4.5	8.5	7.5	41.6	13.0	4.5	37.9	0.0	5.3	3.8
Abu Dhabi, UAE	691	15.6	14.1	23.8	30.9	29.6	15.6	15.7	0.0	21.2	9.7
Dubai, UAE	887	19.0	26.5	13.7	29.2	45.5	19.0	11.1	0.6	22.2	15.5
Florida, US	302	11.7	26.4	16.1	34.3	38.1	11.7	10.8	0.7	13.4	9.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S10_05 (S062032): Physics / Reasoning Type: MC Key: C
Label: Hot metal ball on balance

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	21.5	17.8	35.4	21.5	23.7	1.4	0.3	19.4	23.7
Bahrain	707	31.3	17.2	26.0	31.3	23.8	1.4	0.3	30.4	32.1
Botswana	0	.	.	.	.	.	.	.	.	.
Canada	1237	29.6	21.0	28.4	29.6	20.3	0.7	0.0	28.9	30.2
Chile	695	29.3	24.7	22.9	29.3	20.5	2.2	0.4	29.0	29.6
Chinese Taipei	820	40.1	11.9	38.1	40.1	9.7	0.2	0.0	37.7	42.3
Egypt	1124	47.3	14.5	20.2	47.3	16.2	1.6	0.2	46.8	48.0
England	698	21.9	14.8	36.6	21.9	25.7	0.8	0.2	19.8	24.1
Georgia	583	28.8	18.4	30.4	28.8	20.1	2.1	0.2	26.5	30.5
Hong Kong SAR	586	28.9	16.3	40.3	28.9	13.9	0.5	0.0	31.5	26.6
Hungary	697	40.8	16.2	26.6	40.8	15.5	1.0	0.0	37.9	43.6
Iran, Islamic Rep. of	867	30.4	19.5	22.8	30.4	24.8	2.6	0.0	28.6	32.0
Ireland	664	17.9	15.6	43.6	17.9	22.5	0.4	0.0	15.6	20.2
Israel	798	48.7	13.9	21.8	48.7	12.8	2.2	0.5	47.6	49.9
Italy	631	29.3	18.9	29.4	29.3	20.6	1.7	0.0	24.9	33.4
Japan	672	40.3	21.6	30.7	40.3	6.9	0.5	0.0	41.7	38.9
Jordan	1131	49.4	14.7	16.6	49.4	18.1	1.2	0.0	48.8	50.1
Kazakhstan	696	61.6	12.2	17.0	61.6	7.9	0.9	0.4	61.0	62.1
Korea, Rep. of	759	50.1	14.2	25.3	50.1	9.9	0.4	0.0	54.0	46.6
Kuwait	652	32.1	16.7	22.2	32.1	24.3	4.3	0.5	30.9	33.3
Lebanon	543	42.4	12.8	20.1	42.4	18.2	4.4	2.2	42.5	42.2
Lithuania	618	39.9	19.8	24.8	39.9	15.2	0.3	0.0	34.6	45.1
Malaysia	1394	45.4	12.0	27.4	45.4	14.6	0.5	0.1	48.4	42.6
Malta	540	23.2	16.6	36.5	23.2	21.1	2.3	0.4	21.7	24.7
Morocco	1882	48.9	13.2	15.8	48.9	19.8	2.0	0.3	47.5	50.2
New Zealand	1123	23.8	17.3	31.6	23.8	25.2	1.2	0.9	20.6	27.0
Norway	664	31.4	22.2	27.1	31.4	17.2	1.9	0.2	29.5	33.2
Oman	1268	27.7	22.0	20.9	27.7	27.6	1.6	0.3	20.5	33.9
Qatar	770	22.6	24.5	29.4	22.6	21.0	2.1	0.5	22.5	22.8
Russian Federation	679	47.6	12.6	28.1	47.6	10.2	1.4	0.1	47.9	47.4
Saudi Arabia	538	35.1	13.0	24.8	35.1	26.2	0.9	0.0	33.1	37.2
Singapore	869	45.9	11.2	37.4	45.9	5.3	0.2	0.0	44.2	47.6
Slovenia	604	56.3	13.9	17.0	56.3	11.7	1.1	0.0	54.0	58.2
South Africa	0	.	.	.	.	.	.	.	.	.
Sweden	578	29.0	20.4	30.5	29.0	15.2	4.7	0.3	26.1	31.9
Thailand	922	26.4	19.6	35.5	26.4	16.4	1.9	0.1	21.1	32.7
Turkey	858	29.3	26.2	23.7	29.3	20.5	0.2	0.1	26.3	32.4
United Arab Emirates	2571	35.6	16.9	24.9	35.6	21.1	1.3	0.2	33.0	38.3
United States	1452	32.6	17.8	25.9	32.6	21.3	1.9	0.6	31.6	33.8
International Avg (n=37)	33366	35.7	17.1	27.4	35.7	18.0	1.5	0.2	34.2	37.2
Buenos Aires, Argentina	445	26.3	13.0	25.4	26.3	14.4	14.3	6.6	25.5	27.1
Ontario, Canada	643	22.5	20.4	31.9	22.5	24.1	1.1	0.0	22.1	22.9
Quebec, Canada	553	47.5	18.1	20.0	47.5	14.2	0.1	0.1	44.9	50.0
Norway (8)	674	23.6	25.6	34.0	23.6	14.5	2.4	0.0	22.5	24.7
Abu Dhabi, UAE	691	32.8	19.4	23.2	32.8	22.7	1.9	0.0	29.1	36.7
Dubai, UAE	886	37.3	15.4	26.7	37.3	19.0	0.9	0.6	37.0	37.6
Florida, US	302	30.7	17.1	24.1	30.7	25.4	2.0	0.7	26.5	35.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_06 (S062043): Physics / Knowing Type: CR 1 Point
Label: Electromagnet and paper clips

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	14.9	72.9	14.9	11.9	0.3	13.6	16.2
Bahrain	708	28.1	57.7	28.1	13.9	0.4	26.0	29.8
Botswana	854	17.5	75.9	17.5	6.3	0.3	14.0	20.7
Canada	1241	11.8	76.7	11.8	11.1	0.4	10.2	13.3
Chile	695	16.0	50.9	16.0	32.8	0.4	14.6	17.0
Chinese Taipei	820	55.0	33.8	55.0	11.2	0.0	52.2	57.6
Egypt	1124	19.3	54.7	19.3	25.8	0.2	17.0	22.0
England	698	48.8	45.6	48.8	5.4	0.2	45.2	52.7
Georgia	583	10.7	39.4	10.7	49.6	0.2	10.6	10.8
Hong Kong SAR	586	46.7	43.9	46.7	9.4	0.0	41.4	51.3
Hungary	697	21.0	53.5	21.0	25.5	0.0	16.9	25.2
Iran, Islamic Rep. of	867	47.7	35.3	47.7	17.0	0.0	47.0	48.3
Ireland	664	17.1	71.4	17.1	11.5	0.0	13.1	21.2
Israel	798	24.4	57.8	24.4	17.3	0.5	24.8	24.0
Italy	631	11.9	54.1	11.9	34.0	0.0	9.8	13.8
Japan	672	72.3	23.0	72.3	4.7	0.0	69.4	75.3
Jordan	1131	15.8	68.0	15.8	16.2	0.0	19.4	11.9
Kazakhstan	696	35.5	48.7	35.5	15.4	0.4	40.4	31.2
Korea, Rep. of	759	34.9	57.3	34.9	7.8	0.0	34.3	35.4
Kuwait	653	14.3	51.6	14.3	33.4	0.7	14.7	14.0
Lebanon	546	12.4	41.4	12.4	44.0	2.2	12.6	12.1
Lithuania	618	10.1	70.2	10.1	19.8	0.0	9.6	10.5
Malaysia	1394	54.7	37.4	54.7	7.7	0.2	55.7	53.7
Malta	540	17.5	66.0	17.5	16.1	0.4	13.1	21.9
Morocco	1882	9.5	59.1	9.5	31.2	0.3	8.0	10.9
New Zealand	1123	20.7	66.6	20.7	11.8	0.9	18.1	23.2
Norway	664	22.3	56.9	22.3	20.6	0.2	20.0	24.4
Oman	1263	19.4	69.8	19.4	10.5	0.3	19.8	19.1
Qatar	770	37.5	48.3	37.5	13.7	0.5	39.9	34.9
Russian Federation	679	24.7	53.2	24.7	22.0	0.1	19.5	29.4
Saudi Arabia	539	1.9	71.6	1.9	26.5	0.0	2.8	0.9
Singapore	869	89.1	9.8	89.1	1.1	0.0	88.7	89.4
Slovenia	604	16.1	66.5	16.1	17.4	0.0	14.8	17.1
South Africa	1790	19.8	71.5	19.8	8.4	0.3	16.8	22.9
Sweden	578	34.8	44.8	34.8	20.1	0.3	33.3	36.2
Thailand	922	15.4	59.3	15.4	25.2	0.1	12.5	18.7
Turkey	858	36.1	53.7	36.1	10.1	0.1	37.1	35.1
United Arab Emirates	2571	29.3	60.2	29.3	10.4	0.2	27.3	31.2
United States	1452	14.7	80.4	14.7	4.1	0.8	11.9	17.7
International Avg (n=39)	36015	26.9	55.4	26.9	17.5	0.3	25.5	28.2
Buenos Aires, Argentina	458	2.4	33.0	2.4	57.2	7.5	2.9	1.8
Ontario, Canada	644	14.3	76.4	14.3	9.3	0.0	12.8	15.7
Quebec, Canada	556	5.9	76.7	5.9	16.3	1.1	4.0	7.9
Norway (8)	674	12.8	61.2	12.8	26.0	0.0	9.3	15.9
Abu Dhabi, UAE	691	27.8	60.6	27.8	11.7	0.0	28.1	27.4
Dubai, UAE	886	38.1	54.0	38.1	7.3	0.6	33.9	42.6
Florida, US	302	7.9	83.7	7.9	7.8	0.7	8.7	7.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S10_07 (S062158): Physics / Applying Type: MC Key: B
Label: Graphs of musical notes

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	58.5	14.9	58.5	9.3	15.5	1.5	0.3	57.0	60.2
Bahrain	708	54.2	9.1	54.2	13.4	21.9	0.9	0.5	60.1	48.9
Botswana	854	40.5	16.5	40.5	18.3	22.9	1.4	0.4	38.3	42.5
Canada	1233	58.0	17.2	58.0	10.6	13.3	0.9	0.0	57.7	58.3
Chile	695	62.0	12.3	62.0	7.1	16.1	2.1	0.4	59.1	64.2
Chinese Taipei	820	73.4	7.0	73.4	4.9	14.5	0.2	0.0	74.6	72.3
Egypt	1123	36.7	12.2	36.7	26.5	23.0	1.3	0.3	35.4	38.2
England	698	68.5	12.1	68.5	4.6	12.6	2.0	0.2	69.2	67.8
Georgia	583	24.2	18.4	24.2	37.9	18.4	0.9	0.3	18.3	28.6
Hong Kong SAR	586	54.5	27.1	54.5	8.0	9.9	0.5	0.0	55.9	53.2
Hungary	697	40.3	16.5	40.3	26.0	15.6	1.7	0.0	34.1	46.5
Iran, Islamic Rep. of	867	55.4	7.7	55.4	13.1	21.7	2.0	0.2	52.1	58.4
Ireland	664	63.0	13.7	63.0	8.8	13.3	1.2	0.0	62.1	63.8
Israel	798	63.8	7.1	63.8	11.0	16.3	1.2	0.6	65.8	61.8
Italy	631	59.3	7.9	59.3	10.8	20.4	1.6	0.0	56.2	62.0
Japan	672	77.2	6.1	77.2	3.8	12.7	0.2	0.0	77.8	76.5
Jordan	1131	49.3	8.7	49.3	19.6	21.0	1.2	0.2	49.5	49.0
Kazakhstan	696	57.6	11.6	57.6	12.9	15.7	1.8	0.4	59.0	56.4
Korea, Rep. of	759	72.5	5.3	72.5	6.4	15.5	0.4	0.0	75.3	69.9
Kuwait	652	45.9	8.4	45.9	24.4	16.9	3.5	0.8	45.5	46.4
Lebanon	539	42.0	8.4	42.0	22.0	18.6	6.3	2.8	40.2	44.2
Lithuania	618	54.4	13.7	54.4	16.8	14.4	0.8	0.0	54.1	54.7
Malaysia	1394	64.7	9.9	64.7	6.4	18.2	0.5	0.2	61.6	67.5
Malta	540	54.8	12.6	54.8	12.9	17.8	1.5	0.4	52.4	57.3
Morocco	1882	43.4	7.4	43.4	19.3	27.5	2.2	0.3	40.6	46.0
New Zealand	1123	62.8	14.2	62.8	7.8	12.9	1.2	1.0	65.2	60.5
Norway	664	49.2	11.9	49.2	17.5	15.7	5.3	0.3	46.9	51.3
Oman	1268	50.6	11.9	50.6	19.7	17.1	0.5	0.3	52.2	49.2
Qatar	770	55.4	10.8	55.4	14.5	17.6	1.2	0.5	59.3	51.5
Russian Federation	679	59.3	9.4	59.3	10.1	19.6	1.5	0.1	60.5	58.3
Saudi Arabia	538	51.8	10.9	51.8	18.3	18.2	0.6	0.1	54.4	49.2
Singapore	869	64.4	10.5	64.4	8.7	16.0	0.5	0.0	64.6	64.1
Slovenia	604	57.6	9.9	57.6	15.2	16.7	0.5	0.0	56.3	58.7
South Africa	1790	44.8	9.7	44.8	17.6	26.1	1.0	0.8	44.0	45.5
Sweden	578	53.6	11.4	53.6	12.8	18.2	3.6	0.3	53.8	53.5
Thailand	922	51.6	16.5	51.6	14.7	15.8	1.2	0.1	50.6	52.8
Turkey	858	53.6	7.8	53.6	16.3	22.0	0.2	0.1	56.0	51.1
United Arab Emirates	2571	58.9	9.2	58.9	12.9	16.9	1.8	0.2	60.1	57.7
United States	1452	58.0	16.5	58.0	8.8	14.9	1.0	0.8	57.5	58.5
International Avg (n=39)	36002	55.0	11.6	55.0	14.1	17.5	1.5	0.3	54.7	55.3
Buenos Aires, Argentina	446	47.8	7.7	47.8	12.3	15.6	9.4	7.2	52.5	43.1
Ontario, Canada	644	60.9	16.0	60.9	9.5	12.5	1.1	0.0	62.9	59.1
Quebec, Canada	548	51.6	19.7	51.6	14.5	13.5	0.6	0.2	50.0	53.2
Norway (8)	674	49.4	9.7	49.4	19.7	17.4	3.8	0.0	51.7	47.0
Abu Dhabi, UAE	691	56.3	10.1	56.3	15.0	15.8	2.8	0.0	59.7	52.9
Dubai, UAE	886	64.5	8.5	64.5	8.7	16.8	0.8	0.6	65.2	63.8
Florida, US	302	55.5	17.7	55.5	6.7	17.6	1.8	0.7	61.4	49.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_08 (S062159): Physics / Applying Type: MC Key: D
Label: Box pulled by three forces

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	50.7	8.6	18.0	15.9	50.7	6.5	0.4	50.7	50.6
Bahrain	708	45.6	12.0	20.1	19.9	45.6	1.9	0.5	42.3	48.6
Botswana	854	27.9	16.3	35.6	18.8	27.9	1.0	0.4	24.2	31.4
Canada	1237	55.9	5.9	18.5	17.3	55.9	2.3	0.1	52.6	59.0
Chile	695	46.1	14.7	17.6	18.6	46.1	2.4	0.6	41.4	49.9
Chinese Taipei	820	75.3	3.1	16.3	5.2	75.3	0.0	0.0	77.8	73.0
Egypt	1123	33.3	13.1	23.8	27.2	33.3	2.3	0.3	31.1	35.7
England	698	62.7	5.1	21.5	8.9	62.7	1.6	0.2	63.2	62.2
Georgia	583	32.0	10.8	40.0	14.9	32.0	2.0	0.3	26.1	36.4
Hong Kong SAR	586	70.2	4.0	17.9	7.4	70.2	0.5	0.0	67.2	72.8
Hungary	697	75.4	3.6	10.8	9.3	75.4	0.9	0.0	72.0	78.8
Iran, Islamic Rep. of	867	51.3	9.7	20.2	16.5	51.3	2.2	0.2	48.7	53.7
Ireland	664	53.1	6.6	23.6	13.2	53.1	3.5	0.0	53.3	52.9
Israel	798	61.3	5.8	18.9	10.6	61.3	2.8	0.6	59.1	63.5
Italy	631	62.0	7.6	18.7	11.4	62.0	0.2	0.0	58.8	65.0
Japan	672	82.3	3.7	6.4	6.6	82.3	1.1	0.0	82.0	82.5
Jordan	1131	51.6	10.2	19.4	17.5	51.6	1.1	0.2	49.0	54.4
Kazakhstan	696	54.5	6.7	27.0	10.1	54.5	1.3	0.4	55.0	54.0
Korea, Rep. of	759	77.4	3.7	14.2	4.7	77.4	0.0	0.0	78.1	76.7
Kuwait	648	35.0	12.7	24.3	24.0	35.0	3.2	0.8	33.5	36.3
Lebanon	543	37.8	10.0	20.6	17.3	37.8	11.5	2.8	37.9	37.7
Lithuania	618	45.6	8.5	31.4	13.4	45.6	1.1	0.0	46.4	44.8
Malaysia	1394	69.2	6.1	14.5	9.4	69.2	0.4	0.4	72.1	66.5
Malta	540	54.5	6.8	26.5	10.3	54.5	1.6	0.4	52.6	56.5
Morocco	1882	32.4	14.5	23.5	25.6	32.4	3.7	0.3	29.8	34.7
New Zealand	1123	47.1	10.0	21.9	17.2	47.1	2.8	1.0	47.5	46.7
Norway	664	43.0	8.2	23.1	19.1	43.0	6.3	0.3	40.1	45.7
Oman	1267	43.8	12.2	25.1	17.6	43.8	1.0	0.3	38.1	48.7
Qatar	770	56.2	7.8	19.2	15.3	56.2	1.0	0.5	58.7	53.6
Russian Federation	679	68.4	5.4	13.8	10.0	68.4	2.3	0.1	65.0	71.4
Saudi Arabia	538	36.8	15.8	23.2	22.6	36.8	1.2	0.4	33.8	39.8
Singapore	869	73.3	4.2	18.4	4.1	73.3	0.0	0.0	71.1	75.4
Slovenia	604	62.8	4.1	26.0	6.3	62.8	0.7	0.0	56.0	68.4
South Africa	1790	19.9	18.0	36.4	23.5	19.9	1.4	0.9	19.0	20.8
Sweden	578	57.3	5.7	20.4	13.1	57.3	3.1	0.3	54.1	60.6
Thailand	922	65.0	7.2	12.0	14.1	65.0	1.6	0.1	62.9	67.4
Turkey	858	53.8	8.7	27.2	10.1	53.8	0.0	0.1	49.2	58.5
United Arab Emirates	2571	54.0	9.3	19.4	15.9	54.0	1.1	0.2	52.9	55.2
United States	1452	58.4	9.6	16.9	13.2	58.4	0.8	1.0	57.5	59.5
International Avg (n=39)	36005	53.4	8.6	21.3	14.3	53.4	2.0	0.4	51.6	55.1
Buenos Aires, Argentina	443	32.6	5.8	21.0	13.4	32.6	19.8	7.4	30.6	34.5
Ontario, Canada	643	51.1	7.3	20.3	18.6	51.1	2.6	0.1	47.1	54.7
Quebec, Canada	553	65.6	3.8	15.1	13.2	65.6	2.1	0.3	62.0	69.3
Norway (8)	674	36.1	10.7	23.2	21.4	36.1	8.7	0.0	35.6	36.8
Abu Dhabi, UAE	691	46.8	10.0	21.0	21.3	46.8	0.8	0.0	48.6	44.9
Dubai, UAE	886	65.4	7.1	16.7	9.8	65.4	0.4	0.6	64.5	66.3
Florida, US	302	56.2	10.5	16.4	14.4	56.2	1.1	1.2	52.0	60.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_09 (S062005): Chemistry / Applying Type: CR 1 Point
Label: Syringes with solid and air

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	31.7	57.4	31.7	10.5	0.4	33.1	30.1
Bahrain	708	46.0	40.4	46.0	13.0	0.6	56.7	36.5
Botswana	854	16.4	77.3	16.4	5.8	0.4	19.4	13.6
Canada	1241	45.8	45.4	45.8	8.0	0.7	49.4	42.4
Chile	694	21.8	48.0	21.8	29.6	0.6	22.9	21.0
Chinese Taipei	820	34.1	49.0	34.1	16.9	0.0	33.0	35.1
Egypt	1124	13.6	61.3	13.6	24.5	0.6	13.3	13.9
England	698	56.5	33.8	56.5	9.4	0.2	61.0	51.6
Georgia	583	19.6	38.2	19.6	41.8	0.4	19.9	19.4
Hong Kong SAR	586	34.7	53.0	34.7	12.2	0.0	35.6	33.9
Hungary	697	34.3	50.5	34.3	15.2	0.0	32.2	36.5
Iran, Islamic Rep. of	867	20.6	61.2	20.6	18.1	0.2	21.3	19.9
Ireland	664	32.8	55.9	32.8	11.4	0.0	36.5	29.0
Israel	798	54.7	31.3	54.7	13.3	0.6	56.3	53.1
Italy	631	30.9	42.7	30.9	26.4	0.0	30.6	31.2
Japan	672	55.4	32.8	55.4	11.8	0.0	61.3	49.2
Jordan	1131	17.1	65.3	17.1	17.4	0.2	22.6	11.2
Kazakhstan	696	50.8	36.4	50.8	12.5	0.4	53.4	48.4
Korea, Rep. of	759	60.1	29.7	60.1	10.2	0.0	62.0	58.5
Kuwait	653	18.3	51.3	18.3	29.4	1.0	25.0	12.1
Lebanon	549	8.4	47.3	8.4	40.8	3.6	10.0	6.3
Lithuania	618	30.3	59.4	30.3	10.3	0.0	32.4	28.2
Malaysia	1394	22.9	61.6	22.9	15.1	0.4	25.8	20.3
Malta	540	41.2	42.8	41.2	15.6	0.4	47.7	34.6
Morocco	1882	7.9	67.0	7.9	24.7	0.5	8.6	7.2
New Zealand	1123	41.0	48.4	41.0	9.5	1.0	44.9	37.3
Norway	664	23.7	55.8	23.7	20.1	0.3	23.6	23.8
Oman	1267	41.6	47.1	41.6	10.8	0.4	52.2	32.4
Qatar	770	35.7	47.7	35.7	16.0	0.5	46.0	25.2
Russian Federation	679	45.5	36.6	45.5	17.6	0.2	45.3	45.7
Saudi Arabia	539	10.0	67.9	10.0	21.5	0.6	12.7	7.2
Singapore	869	66.4	31.9	66.4	1.6	0.0	71.4	61.4
Slovenia	604	38.4	54.0	38.4	7.6	0.0	44.8	33.1
South Africa	1790	10.9	77.0	10.9	11.0	1.1	13.0	8.8
Sweden	578	29.6	46.7	29.6	23.4	0.3	32.5	26.7
Thailand	923	8.7	69.4	8.7	21.6	0.3	10.5	6.6
Turkey	858	47.0	42.9	47.0	10.0	0.1	53.0	40.8
United Arab Emirates	2572	37.5	50.5	37.5	11.7	0.3	45.1	29.6
United States	1452	26.9	67.4	26.9	4.7	1.0	28.8	25.0
International Avg (n=39)	36023	32.5	50.8	32.5	16.2	0.4	35.7	29.4
Buenos Aires, Argentina	458	6.7	34.6	6.7	49.7	9.0	6.1	7.2
Ontario, Canada	644	53.6	38.9	53.6	7.0	0.4	57.7	49.9
Quebec, Canada	556	27.3	60.1	27.3	11.0	1.5	28.9	25.8
Norway (8)	674	18.6	60.2	18.6	21.0	0.2	19.5	17.8
Abu Dhabi, UAE	691	31.4	54.1	31.4	14.3	0.3	42.1	20.2
Dubai, UAE	887	51.6	40.7	51.6	7.0	0.6	58.4	44.3
Florida, US	302	28.2	62.0	28.2	8.1	1.7	32.1	24.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S10_10 (S062075): Chemistry / Reasoning Type: MC Key: D
Label: Hugo's chemical reaction

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	49.5	5.4	14.7	29.0	49.5	1.0	0.4	50.0	49.0
Bahrain	708	42.7	7.8	25.3	22.3	42.7	1.2	0.6	42.6	42.7
Botswana	854	38.7	8.8	31.2	19.5	38.7	1.2	0.4	39.3	38.2
Canada	1235	53.5	4.7	15.7	24.9	53.5	0.7	0.4	52.5	54.4
Chile	694	55.0	4.6	13.3	25.2	55.0	1.0	0.8	52.8	56.8
Chinese Taipei	820	81.9	0.8	8.2	8.8	81.9	0.3	0.0	81.8	82.0
Egypt	1124	41.6	9.1	18.5	28.3	41.6	1.7	0.7	38.9	44.6
England	698	63.0	3.5	9.2	22.5	63.0	1.4	0.3	63.1	62.8
Georgia	583	53.8	4.2	23.8	15.6	53.8	1.9	0.6	56.8	51.6
Hong Kong SAR	586	49.1	6.4	17.3	26.8	49.1	0.3	0.0	41.0	56.2
Hungary	697	51.6	3.7	16.4	27.3	51.6	1.0	0.0	50.7	52.4
Iran, Islamic Rep. of	867	41.2	6.4	16.6	31.3	41.2	4.2	0.3	37.4	44.6
Ireland	664	53.2	3.8	16.6	23.1	53.2	3.4	0.0	50.0	56.3
Israel	798	49.2	5.2	12.9	28.9	49.2	2.7	1.2	46.5	51.8
Italy	631	56.0	3.4	15.5	22.6	56.0	2.5	0.0	57.0	55.1
Japan	672	81.7	2.1	11.0	4.7	81.7	0.6	0.0	82.2	81.1
Jordan	1131	48.7	6.9	19.9	22.2	48.7	1.9	0.3	53.8	43.3
Kazakhstan	696	66.1	4.2	12.0	15.6	66.1	1.9	0.4	65.0	67.1
Korea, Rep. of	759	49.1	6.1	9.8	35.0	49.1	0.0	0.0	44.8	53.0
Kuwait	654	42.3	11.0	24.5	17.9	42.3	2.8	1.5	40.2	44.2
Lebanon	543	52.1	4.9	12.8	17.6	52.1	7.1	5.5	54.6	48.8
Lithuania	618	58.4	1.6	19.9	19.5	58.4	0.5	0.0	51.1	65.6
Malaysia	1394	40.1	7.5	23.0	28.7	40.1	0.4	0.4	39.2	40.9
Malta	540	43.7	5.5	18.3	29.5	43.7	2.7	0.4	42.4	45.0
Morocco	1881	49.0	4.6	27.3	14.9	49.0	3.6	0.6	49.7	48.4
New Zealand	1123	52.0	3.7	14.6	26.8	52.0	1.8	1.0	54.3	49.7
Norway	664	58.0	2.9	17.0	17.7	58.0	3.8	0.6	56.7	59.2
Oman	1268	41.9	9.6	19.5	27.5	41.9	1.1	0.4	41.3	42.5
Qatar	770	47.4	8.7	17.6	24.3	47.4	1.4	0.5	44.8	50.1
Russian Federation	679	58.8	1.8	24.8	11.2	58.8	2.8	0.6	64.1	54.2
Saudi Arabia	538	42.0	10.5	19.4	27.3	42.0	0.3	0.6	43.4	40.4
Singapore	869	69.5	1.3	9.3	19.9	69.5	0.0	0.0	69.4	69.5
Slovenia	604	70.4	2.2	16.9	9.9	70.4	0.6	0.0	70.1	70.7
South Africa	1790	44.4	7.6	18.1	25.0	44.4	3.5	1.4	45.3	43.5
Sweden	578	54.4	4.0	24.1	13.1	54.4	4.0	0.4	51.4	57.4
Thailand	923	40.6	7.2	13.3	36.1	40.6	2.2	0.5	41.0	40.2
Turkey	858	62.2	4.6	16.5	16.2	62.2	0.3	0.1	64.9	59.4
United Arab Emirates	2572	54.5	6.4	17.8	19.8	54.5	1.2	0.3	55.4	53.5
United States	1452	58.7	3.2	18.9	17.8	58.7	0.4	1.1	57.1	60.3
International Avg (n=39)	36011	53.0	5.3	17.5	21.9	53.0	1.8	0.6	52.4	53.5
Buenos Aires, Argentina	440	31.6	6.9	15.4	23.2	31.6	14.6	8.3	31.0	32.2
Ontario, Canada	643	47.6	5.9	16.7	28.4	47.6	1.1	0.4	45.6	49.3
Quebec, Canada	551	70.0	1.8	14.2	13.5	70.0	0.0	0.5	72.4	67.5
Norway (8)	674	52.5	3.9	16.6	21.6	52.5	5.2	0.2	49.3	55.3
Abu Dhabi, UAE	691	51.2	7.5	19.0	20.8	51.2	1.1	0.3	56.3	46.0
Dubai, UAE	887	64.9	5.0	13.7	14.8	64.9	0.9	0.7	65.2	64.7
Florida, US	302	46.8	5.0	25.3	20.9	46.8	0.3	1.7	48.8	44.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_11 (S062004): Chemistry / Knowing Type: MC Key: B
Label: Block pounded into flat sheet

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	37.6	14.3	37.6	11.1	36.3	0.4	0.4	32.4	43.0
Bahrain	708	25.3	32.5	25.3	14.7	26.5	0.4	0.6	21.4	28.8
Botswana	854	11.5	25.4	11.5	29.8	31.6	0.7	0.9	12.0	11.0
Canada	1235	45.9	13.0	45.9	10.2	29.4	1.0	0.5	41.9	49.7
Chile	694	34.6	16.0	34.6	15.5	32.4	0.8	0.8	32.8	36.1
Chinese Taipei	820	65.3	8.5	65.3	9.6	16.4	0.3	0.0	65.0	65.5
Egypt	1124	16.7	39.3	16.7	19.7	21.6	2.0	0.7	17.2	16.1
England	698	39.9	10.5	39.9	13.3	35.5	0.5	0.3	38.8	41.0
Georgia	583	35.4	9.9	35.4	8.1	44.1	1.8	0.6	37.6	33.8
Hong Kong SAR	586	42.2	10.3	42.2	9.6	37.8	0.0	0.0	36.2	47.6
Hungary	697	42.2	11.6	42.2	6.8	38.6	0.8	0.0	34.5	50.0
Iran, Islamic Rep. of	867	29.1	42.5	29.1	4.5	22.7	0.7	0.6	28.3	29.9
Ireland	664	34.8	15.1	34.8	14.4	35.1	0.7	0.0	35.6	33.9
Israel	798	51.6	15.4	51.6	11.4	19.4	1.0	1.3	49.1	54.0
Italy	631	37.7	10.9	37.7	9.5	40.4	1.5	0.0	33.8	41.3
Japan	672	66.7	12.7	66.7	5.9	14.6	0.2	0.0	63.5	70.0
Jordan	1131	16.8	39.0	16.8	18.3	24.8	0.6	0.4	19.5	13.9
Kazakhstan	696	60.0	14.1	60.0	6.7	17.7	0.8	0.6	62.0	58.2
Korea, Rep. of	759	48.4	13.7	48.4	4.9	33.0	0.0	0.0	44.3	52.2
Kuwait	652	21.7	33.6	21.7	15.3	25.2	2.6	1.6	15.7	27.4
Lebanon	540	26.9	20.6	26.9	18.7	22.9	5.1	5.8	29.8	23.2
Lithuania	617	45.4	10.6	45.4	6.4	37.5	0.2	0.0	38.5	52.2
Malaysia	1394	29.7	25.2	29.7	17.8	26.2	0.5	0.5	31.0	28.6
Malta	540	38.0	19.1	38.0	11.3	29.3	2.0	0.4	33.3	42.7
Morocco	1882	36.5	39.7	36.5	11.5	9.3	2.3	0.6	38.5	34.7
New Zealand	1123	40.8	12.3	40.8	12.5	31.8	1.6	1.0	35.9	45.6
Norway	664	38.8	13.1	38.8	11.8	33.8	1.6	0.8	31.8	45.3
Oman	1268	29.7	23.1	29.7	16.1	29.5	1.0	0.6	31.7	28.0
Qatar	770	21.9	33.9	21.9	15.3	27.7	0.7	0.5	20.8	23.0
Russian Federation	679	51.8	6.9	51.8	6.0	33.7	1.1	0.6	49.1	54.2
Saudi Arabia	538	9.1	46.5	9.1	20.0	23.3	0.5	0.6	8.1	10.1
Singapore	869	64.1	7.9	64.1	6.5	21.4	0.0	0.0	61.6	66.6
Slovenia	604	53.1	16.6	53.1	8.0	22.0	0.2	0.0	49.3	56.2
South Africa	1790	15.5	25.6	15.5	21.1	34.9	1.2	1.8	14.5	16.4
Sweden	578	43.4	15.0	43.4	9.0	28.5	3.6	0.4	40.4	46.4
Thailand	923	20.6	24.7	20.6	21.3	31.0	1.9	0.5	21.6	19.3
Turkey	858	25.2	29.3	25.2	12.5	32.7	0.2	0.1	24.6	25.8
United Arab Emirates	2572	36.6	27.0	36.6	13.1	21.6	1.3	0.4	36.1	37.1
United States	1452	52.4	11.9	52.4	6.6	27.5	0.5	1.1	47.7	57.5
International Avg (n=39)	36006	37.0	20.4	37.0	12.4	28.4	1.1	0.6	35.0	38.9
Buenos Aires, Argentina	446	18.0	20.5	18.0	14.4	31.0	7.5	8.6	14.7	21.3
Ontario, Canada	644	39.6	13.9	39.6	8.8	36.1	1.0	0.6	35.1	43.7
Quebec, Canada	550	57.7	12.4	57.7	10.4	17.9	1.1	0.5	55.2	60.4
Norway (8)	674	29.3	17.5	29.3	15.2	35.9	1.9	0.2	20.2	37.6
Abu Dhabi, UAE	691	36.6	23.7	36.6	15.3	22.4	1.6	0.4	38.6	34.5
Dubai, UAE	887	43.7	27.2	43.7	7.9	19.9	0.6	0.7	41.8	45.7
Florida, US	302	56.4	8.8	56.4	8.5	23.5	0.9	1.9	54.7	58.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_12 (S062175): Earth Science / Reasoning Type: CR 1 Point
Label: Power plant geographic factor

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	46.0	38.2	46.0	15.4	0.4	40.6	51.8
Bahrain	708	29.1	42.1	29.1	28.1	0.6	31.2	27.3
Botswana	854	6.1	76.5	6.1	16.5	0.9	7.3	5.0
Canada	1241	44.7	40.6	44.7	13.7	1.0	43.9	45.4
Chile	694	29.1	26.1	29.1	44.0	0.8	28.0	29.9
Chinese Taipei	820	52.4	36.6	52.4	10.9	0.2	55.6	49.3
Egypt	1124	28.8	30.7	28.8	39.7	0.8	29.3	28.2
England	698	51.5	34.1	51.5	14.1	0.3	44.7	59.0
Georgia	583	40.7	19.0	40.7	39.6	0.6	37.9	42.8
Hong Kong SAR	586	57.3	34.2	57.3	8.4	0.0	52.1	62.0
Hungary	697	33.7	48.1	33.7	18.1	0.1	32.5	34.9
Iran, Islamic Rep. of	867	26.3	33.3	26.3	39.6	0.8	27.4	25.3
Ireland	664	56.9	30.0	56.9	13.1	0.0	58.4	55.3
Israel	798	34.0	32.8	34.0	31.9	1.3	28.5	39.5
Italy	630	44.5	22.6	44.5	32.8	0.0	43.3	45.7
Japan	672	50.4	41.3	50.4	8.3	0.0	49.7	51.1
Jordan	1131	28.7	38.7	28.7	32.2	0.5	33.7	23.3
Kazakhstan	696	43.2	33.1	43.2	23.0	0.8	45.1	41.5
Korea, Rep. of	759	44.7	44.1	44.7	11.2	0.0	44.8	44.7
Kuwait	652	15.0	38.0	15.0	45.3	1.7	20.2	10.2
Lebanon	548	5.6	21.8	5.6	66.6	5.9	3.8	7.9
Lithuania	617	51.7	27.4	51.7	20.9	0.0	50.6	52.7
Malaysia	1394	42.4	38.0	42.4	18.9	0.8	43.4	41.5
Malta	540	34.9	35.8	34.9	28.5	0.8	35.9	33.8
Morocco	1882	19.3	29.1	19.3	51.0	0.7	17.4	21.0
New Zealand	1123	42.0	36.1	42.0	20.9	1.1	41.0	42.9
Norway	664	37.6	32.1	37.6	29.3	1.0	35.3	39.8
Oman	1264	30.1	48.3	30.1	21.1	0.6	35.4	25.4
Qatar	770	35.1	40.9	35.1	23.2	0.7	38.6	31.6
Russian Federation	679	55.4	22.3	55.4	21.8	0.6	49.7	60.4
Saudi Arabia	539	13.3	49.5	13.3	36.3	0.9	17.6	8.8
Singapore	869	54.1	40.2	54.1	5.7	0.0	49.3	58.9
Slovenia	604	39.9	39.9	39.9	20.2	0.0	33.1	45.5
South Africa	1790	9.0	62.5	9.0	26.4	2.0	9.6	8.4
Sweden	578	48.3	28.5	48.3	22.5	0.7	50.6	45.9
Thailand	923	12.1	57.4	12.1	29.8	0.7	10.0	14.6
Turkey	858	47.4	32.8	47.4	19.7	0.1	47.7	47.0
United Arab Emirates	2572	35.5	43.6	35.5	20.5	0.4	40.9	30.0
United States	1452	36.1	55.5	36.1	7.2	1.2	32.6	39.8
International Avg (n=39)	36016	36.2	38.0	36.2	25.0	0.7	35.8	36.6
Buenos Aires, Argentina	458	11.8	19.0	11.8	59.0	10.1	11.9	11.8
Ontario, Canada	644	46.7	39.9	46.7	12.6	0.8	48.3	45.2
Quebec, Canada	556	44.4	37.0	44.4	17.0	1.7	39.0	49.9
Norway (8)	674	27.2	34.3	27.2	37.9	0.6	24.4	29.9
Abu Dhabi, UAE	691	31.3	45.0	31.3	23.3	0.4	39.6	22.7
Dubai, UAE	887	43.8	40.9	43.8	14.6	0.7	46.6	40.8
Florida, US	302	26.6	61.3	26.6	10.2	1.9	23.2	30.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S10_13A (S062173A): Earth Science / Applying Type: CR 1 Point
Label: Temperature and geography (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	52.6	44.9	52.6	2.0	0.6	50.6	54.7
Bahrain	708	26.0	66.3	26.0	6.7	1.1	23.2	28.4
Botswana	853	18.9	68.5	18.9	11.4	1.1	20.4	17.6
Canada	1235	56.3	41.9	56.3	1.0	0.8	52.5	59.8
Chile	695	40.2	55.3	40.2	3.1	1.3	36.5	43.2
Chinese Taipei	820	72.6	26.6	72.6	0.5	0.4	75.6	69.8
Egypt	1124	12.4	67.1	12.4	18.4	2.2	11.7	13.1
England	698	55.3	43.2	55.3	0.8	0.7	56.5	53.9
Georgia	583	24.2	65.3	24.2	8.6	1.9	24.8	23.8
Hong Kong SAR	586	69.1	29.4	69.1	1.3	0.1	74.7	64.1
Hungary	697	50.8	47.5	50.8	1.5	0.2	47.4	54.2
Iran, Islamic Rep. of	867	25.8	70.9	25.8	2.0	1.2	22.5	28.8
Ireland	664	51.2	47.8	51.2	0.8	0.2	54.3	48.1
Israel	798	37.6	54.5	37.6	5.5	2.3	39.0	36.2
Italy	631	52.1	46.4	52.1	1.2	0.4	54.3	50.1
Japan	672	81.5	17.9	81.5	0.4	0.3	85.0	77.8
Jordan	1131	16.8	72.9	16.8	9.3	1.0	19.3	14.1
Kazakhstan	695	55.1	41.5	55.1	2.0	1.5	58.2	52.2
Korea, Rep. of	759	76.0	22.5	76.0	1.3	0.1	79.5	72.8
Kuwait	654	21.0	74.9	21.0	1.8	2.3	21.1	20.9
Lebanon	549	24.3	56.5	24.3	9.8	9.3	23.7	25.2
Lithuania	617	64.7	34.0	64.7	1.3	0.0	65.2	64.1
Malaysia	1393	34.9	60.2	34.9	3.7	1.2	34.1	35.6
Malta	540	38.2	58.5	38.2	2.0	1.4	36.7	39.7
Morocco	1880	14.1	76.7	14.1	7.7	1.5	13.8	14.3
New Zealand	1123	52.2	44.7	52.2	1.8	1.3	54.7	49.7
Norway	664	65.8	31.2	65.8	1.8	1.2	69.0	62.9
Oman	1268	23.0	70.6	23.0	5.0	1.4	23.2	22.8
Qatar	770	29.7	58.7	29.7	9.4	2.2	31.9	27.4
Russian Federation	679	43.6	52.2	43.6	3.2	1.1	41.3	45.6
Saudi Arabia	535	17.1	75.3	17.1	6.3	1.3	16.1	18.1
Singapore	869	68.0	31.3	68.0	0.6	0.0	70.4	65.6
Slovenia	604	66.8	32.8	66.8	0.4	0.0	65.2	68.1
South Africa	1790	22.2	63.2	22.2	12.1	2.5	22.4	22.0
Sweden	578	66.7	30.4	66.7	2.0	1.0	67.1	66.2
Thailand	916	29.8	60.5	29.8	7.9	1.8	30.4	29.1
Turkey	858	47.7	49.2	47.7	3.0	0.1	49.7	45.6
United Arab Emirates	2572	34.2	62.2	34.2	2.9	0.7	38.5	29.8
United States	1452	48.9	47.3	48.9	2.2	1.6	51.1	46.6
International Avg (n=39)	36003	43.3	51.3	43.3	4.2	1.3	43.9	42.6
Buenos Aires, Argentina	442	22.2	54.3	22.2	9.0	14.5	21.7	22.8
Ontario, Canada	642	49.9	47.9	49.9	1.4	0.8	46.0	53.5
Quebec, Canada	552	68.9	30.0	68.9	0.2	0.9	62.7	75.2
Norway (8)	674	59.3	34.5	59.3	3.7	2.5	61.6	57.1
Abu Dhabi, UAE	691	30.6	63.8	30.6	4.6	0.9	38.2	22.9
Dubai, UAE	887	43.7	54.3	43.7	1.0	1.0	44.1	43.4
Florida, US	302	41.4	53.5	41.4	3.2	1.9	45.3	37.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S10_13AA (S062173AA): Earth Science / Applying Type: MC Key: A
Label: Temperature and geography: March

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	80.3	80.3	16.4	2.8	0.6	79.5	81.0
Bahrain	708	59.1	59.1	32.3	7.6	1.1	58.2	59.8
Botswana	854	55.4	55.4	29.7	13.8	1.1	58.6	52.5
Canada	1237	80.7	80.7	17.3	1.3	0.8	78.0	83.3
Chile	695	72.7	72.7	21.7	4.3	1.3	72.8	72.6
Chinese Taipei	820	89.3	89.3	9.6	0.7	0.4	92.4	86.3
Egypt	1124	44.5	44.5	31.1	22.3	2.2	46.2	42.5
England	698	82.9	82.9	15.3	1.0	0.7	83.8	82.0
Georgia	583	56.7	56.7	32.1	9.3	1.9	58.1	55.7
Hong Kong SAR	586	89.5	89.5	8.8	1.6	0.1	91.7	87.6
Hungary	697	77.5	77.5	20.7	1.6	0.2	78.6	76.5
Iran, Islamic Rep. of	867	67.1	67.1	28.8	2.9	1.2	67.4	66.8
Ireland	664	80.5	80.5	18.1	1.2	0.2	83.2	77.7
Israel	798	77.4	77.4	14.2	6.1	2.3	81.1	73.7
Italy	631	78.8	78.8	19.3	1.5	0.4	80.5	77.2
Japan	672	94.2	94.2	4.8	0.7	0.3	96.1	92.3
Jordan	1131	57.4	57.4	30.9	10.6	1.0	62.8	51.7
Kazakhstan	695	76.6	76.6	18.7	3.2	1.5	78.9	74.6
Korea, Rep. of	759	87.3	87.3	10.7	1.8	0.1	90.7	84.1
Kuwait	654	56.0	56.0	38.7	2.9	2.3	53.5	58.6
Lebanon	549	57.7	57.7	20.7	12.3	9.3	56.2	59.6
Lithuania	617	82.1	82.1	16.5	1.4	0.0	84.2	80.1
Malaysia	1394	69.6	69.6	23.9	5.3	1.2	73.3	66.1
Malta	540	70.6	70.6	25.5	2.6	1.4	72.2	68.9
Morocco	1880	51.0	51.0	37.4	10.1	1.5	50.7	51.3
New Zealand	1123	80.7	80.7	15.4	2.5	1.3	84.0	77.5
Norway	664	80.1	80.1	14.2	4.5	1.2	80.5	79.6
Oman	1268	58.6	58.6	32.6	7.4	1.4	58.5	58.8
Qatar	770	62.2	62.2	24.7	10.8	2.2	63.9	60.5
Russian Federation	679	79.2	79.2	16.2	3.6	1.1	75.5	82.4
Saudi Arabia	538	51.9	51.9	38.9	7.8	1.3	51.1	52.8
Singapore	869	87.8	87.8	11.4	0.8	0.0	89.0	86.6
Slovenia	604	81.4	81.4	18.2	0.4	0.0	79.8	82.7
South Africa	1790	54.6	54.6	29.7	13.2	2.5	53.7	55.7
Sweden	578	83.0	83.0	12.2	3.8	1.0	82.5	83.6
Thailand	919	64.8	64.8	24.0	9.5	1.8	63.6	66.2
Turkey	858	76.7	76.7	20.1	3.1	0.1	79.2	74.0
United Arab Emirates	2572	68.0	68.0	27.2	4.1	0.7	71.2	64.6
United States	1452	77.9	77.9	18.1	2.4	1.6	78.9	76.8
International Avg (n=39)	36013	71.8	71.8	21.7	5.2	1.3	72.8	70.9
Buenos Aires, Argentina	445	52.9	52.9	23.1	9.7	14.3	56.1	49.6
Ontario, Canada	643	77.4	77.4	20.5	1.4	0.8	73.6	80.8
Quebec, Canada	553	87.1	87.1	11.0	1.0	0.9	83.2	91.2
Norway (8)	674	76.1	76.1	15.6	5.8	2.5	76.2	76.0
Abu Dhabi, UAE	691	63.3	63.3	29.0	6.7	0.9	70.2	56.2
Dubai, UAE	887	74.6	74.6	23.0	1.4	1.0	76.8	72.2
Florida, US	302	76.5	76.5	17.1	4.5	1.9	76.1	77.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_13AB (S062173AB): Earth Science / Applying Type: MC Key: B
Label: Temperature and geography: October

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	82.8	14.0	82.8	2.7	0.6	84.0	81.5
Bahrain	708	61.2	30.0	61.2	7.7	1.1	60.5	61.9
Botswana	854	58.7	27.1	58.7	13.1	1.1	62.0	55.7
Canada	1237	82.0	15.3	82.0	1.9	0.8	80.8	83.2
Chile	695	77.3	17.6	77.3	3.8	1.3	80.1	75.0
Chinese Taipei	820	86.3	12.4	86.3	0.9	0.4	90.1	82.8
Egypt	1124	44.9	30.2	44.9	22.8	2.2	48.2	41.2
England	698	81.6	16.1	81.6	1.5	0.7	81.9	81.4
Georgia	583	63.4	24.7	63.4	10.0	1.9	64.7	62.3
Hong Kong SAR	586	88.7	9.3	88.7	1.9	0.1	91.9	85.8
Hungary	697	86.2	12.1	86.2	1.5	0.2	85.1	87.3
Iran, Islamic Rep. of	867	62.3	32.6	62.3	3.8	1.2	61.2	63.4
Ireland	664	81.4	17.5	81.4	0.9	0.2	83.6	79.1
Israel	798	76.0	15.4	76.0	6.3	2.3	79.3	72.8
Italy	631	85.1	12.8	85.1	1.7	0.4	88.1	82.4
Japan	672	89.6	9.2	89.6	0.9	0.3	92.3	86.8
Jordan	1131	57.0	31.1	57.0	10.8	1.0	62.6	51.1
Kazakhstan	695	78.6	16.1	78.6	3.8	1.5	78.9	78.3
Korea, Rep. of	759	86.3	11.9	86.3	1.7	0.1	87.7	84.9
Kuwait	654	55.3	38.5	55.3	3.9	2.3	57.2	53.7
Lebanon	549	56.0	23.1	56.0	11.6	9.3	53.5	59.3
Lithuania	617	84.9	13.2	84.9	1.9	0.0	85.3	84.6
Malaysia	1393	72.8	21.4	72.8	4.5	1.2	74.3	71.5
Malta	540	73.5	22.7	73.5	2.5	1.4	73.1	73.8
Morocco	1880	52.6	35.9	52.6	9.9	1.5	52.5	52.7
New Zealand	1123	78.6	18.0	78.6	2.1	1.3	80.5	76.8
Norway	664	82.6	13.7	82.6	2.5	1.2	85.6	79.8
Oman	1268	60.6	30.3	60.6	7.6	1.4	60.6	60.7
Qatar	770	62.0	25.1	62.0	10.7	2.2	63.3	60.7
Russian Federation	679	83.6	11.4	83.6	4.0	1.1	81.3	85.6
Saudi Arabia	539	51.0	39.9	51.0	7.8	1.3	54.1	47.7
Singapore	869	90.3	8.9	90.3	0.8	0.0	92.4	88.2
Slovenia	604	88.1	11.5	88.1	0.4	0.0	89.3	87.2
South Africa	1790	53.5	29.6	53.5	14.4	2.5	52.9	54.1
Sweden	578	82.6	12.6	82.6	3.8	1.0	83.5	81.8
Thailand	917	64.5	24.0	64.5	9.7	1.8	64.9	64.1
Turkey	858	76.2	19.5	76.2	4.2	0.1	78.4	74.1
United Arab Emirates	2572	69.5	25.2	69.5	4.5	0.7	73.4	65.6
United States	1452	80.4	15.5	80.4	2.5	1.6	82.3	78.3
International Avg (n=39)	36011	73.0	20.4	73.0	5.3	1.3	74.4	71.7
Buenos Aires, Argentina	444	52.9	22.7	52.9	10.1	14.4	53.2	52.5
Ontario, Canada	643	78.1	18.7	78.1	2.4	0.8	76.3	79.7
Quebec, Canada	553	89.4	9.0	89.4	0.7	0.9	87.6	91.2
Norway (8)	674	79.8	13.1	79.8	4.6	2.5	83.6	76.3
Abu Dhabi, UAE	691	65.4	26.8	65.4	6.8	0.9	73.1	57.5
Dubai, UAE	887	76.7	20.1	76.7	2.2	1.0	78.9	74.3
Florida, US	302	76.3	18.0	76.3	3.7	1.9	77.6	74.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_13AC (S062173AC): Earth Science / Applying Type: MC Key: A
Label: Temperature and geography: Dec-Feb

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	80.8	80.8	15.3	3.3	0.6	82.2	79.4
Bahrain	708	50.5	50.5	39.8	8.6	1.1	45.0	55.3
Botswana	853	52.0	52.0	32.2	14.7	1.1	53.3	50.7
Canada	1237	83.1	83.1	14.2	1.9	0.8	82.8	83.3
Chile	695	71.2	71.2	23.0	4.5	1.3	69.6	72.4
Chinese Taipei	820	91.3	91.3	7.0	1.3	0.4	93.4	89.3
Egypt	1124	40.4	40.4	34.0	23.4	2.2	40.0	40.9
England	698	82.6	82.6	15.3	1.4	0.7	82.4	82.8
Georgia	583	62.8	62.8	23.7	11.6	1.9	65.0	61.2
Hong Kong SAR	586	88.2	88.2	9.7	2.0	0.1	92.2	84.6
Hungary	697	84.0	84.0	14.2	1.6	0.2	78.8	89.1
Iran, Islamic Rep. of	867	54.7	54.7	39.9	4.1	1.2	50.5	58.6
Ireland	664	81.7	81.7	16.9	1.2	0.2	84.0	79.4
Israel	798	68.2	68.2	23.0	6.4	2.3	63.8	72.6
Italy	631	81.7	81.7	15.6	2.3	0.4	82.4	81.1
Japan	672	93.2	93.2	6.0	0.5	0.3	93.3	93.0
Jordan	1131	51.2	51.2	36.8	11.0	1.0	53.7	48.4
Kazakhstan	695	81.6	81.6	12.9	4.0	1.5	82.4	81.0
Korea, Rep. of	759	89.1	89.1	9.0	1.8	0.1	92.1	86.3
Kuwait	654	52.2	52.2	41.8	3.8	2.3	51.5	52.7
Lebanon	549	51.1	51.1	27.5	12.1	9.3	47.7	55.3
Lithuania	617	86.6	86.6	11.4	1.9	0.0	87.1	86.2
Malaysia	1394	66.8	66.8	26.7	5.2	1.2	65.4	68.1
Malta	540	70.9	70.9	24.7	3.1	1.4	69.0	72.8
Morocco	1880	46.1	46.1	42.3	10.1	1.5	47.9	44.4
New Zealand	1123	82.9	82.9	13.2	2.6	1.3	84.7	81.2
Norway	664	86.1	86.1	9.3	3.4	1.2	84.8	87.3
Oman	1268	55.1	55.1	35.7	7.8	1.4	55.4	54.9
Qatar	770	59.1	59.1	27.5	11.1	2.2	61.6	56.6
Russian Federation	679	80.5	80.5	14.2	4.3	1.1	80.4	80.6
Saudi Arabia	538	46.0	46.0	43.5	9.1	1.3	46.4	45.6
Singapore	869	86.4	86.4	12.6	1.0	0.0	87.4	85.4
Slovenia	604	87.8	87.8	11.5	0.6	0.0	84.3	90.6
South Africa	1790	55.0	55.0	28.3	14.2	2.5	55.7	54.2
Sweden	578	82.5	82.5	11.6	4.9	1.0	82.5	82.6
Thailand	920	61.4	61.4	26.7	10.2	1.8	62.8	59.6
Turkey	858	67.6	67.6	27.2	5.1	0.1	65.9	69.4
United Arab Emirates	2572	65.1	65.1	29.3	4.9	0.7	68.4	61.6
United States	1452	78.9	78.9	16.4	3.1	1.6	81.5	76.1
International Avg (n=39)	36013	70.7	70.7	22.3	5.8	1.3	70.7	70.6
Buenos Aires, Argentina	444	51.1	51.1	23.8	10.7	14.4	54.2	47.9
Ontario, Canada	644	80.9	80.9	16.0	2.3	0.8	82.1	79.8
Quebec, Canada	552	86.9	86.9	11.2	1.0	0.9	83.5	90.4
Norway (8)	674	80.2	80.2	13.0	4.3	2.5	80.6	79.7
Abu Dhabi, UAE	691	61.9	61.9	29.4	7.8	0.9	67.9	55.6
Dubai, UAE	887	75.1	75.1	21.9	2.0	1.0	75.2	74.9
Florida, US	302	70.6	70.6	22.4	5.0	1.9	73.6	67.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_13AD (S062173AD): Earth Science / Applying Type: MC Key: B
Label: Temperature and geography: average

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	72.6	22.6	72.6	4.3	0.6	72.1	73.0
Bahrain	708	55.0	34.5	55.0	9.4	1.1	54.4	55.5
Botswana	853	51.9	30.8	51.9	16.1	1.1	58.9	45.4
Canada	1238	77.7	18.8	77.7	2.7	0.8	77.2	78.1
Chile	695	66.5	28.2	66.5	4.0	1.3	65.1	67.7
Chinese Taipei	820	86.7	11.2	86.7	1.7	0.4	87.5	86.0
Egypt	1124	41.2	32.9	41.2	23.8	2.2	41.5	40.8
England	698	76.3	20.8	76.3	2.1	0.7	78.4	74.0
Georgia	583	48.9	35.6	48.9	13.6	1.9	51.9	46.7
Hong Kong SAR	586	81.2	16.7	81.2	2.0	0.1	84.8	78.1
Hungary	697	68.2	28.9	68.2	2.7	0.2	65.9	70.6
Iran, Islamic Rep. of	867	58.2	33.1	58.2	7.5	1.2	54.9	61.3
Ireland	664	68.5	29.2	68.5	2.0	0.2	69.3	67.7
Israel	798	59.8	30.3	59.8	7.6	2.3	65.7	53.8
Italy	631	70.0	25.6	70.0	4.1	0.4	69.6	70.2
Japan	672	93.2	6.2	93.2	0.4	0.3	94.6	91.6
Jordan	1131	51.3	35.5	51.3	12.2	1.0	55.5	46.7
Kazakhstan	695	75.8	17.0	75.8	5.7	1.5	77.6	74.2
Korea, Rep. of	759	91.1	7.1	91.1	1.7	0.1	93.6	88.8
Kuwait	654	61.9	29.5	61.9	6.3	2.3	64.1	59.9
Lebanon	549	45.6	31.4	45.6	13.8	9.3	46.3	44.6
Lithuania	617	86.0	11.5	86.0	2.5	0.0	87.2	84.7
Malaysia	1394	58.3	33.8	58.3	6.6	1.2	59.0	57.7
Malta	540	62.0	32.4	62.0	4.3	1.4	63.1	61.0
Morocco	1880	51.7	35.8	51.7	10.9	1.5	53.5	50.1
New Zealand	1123	74.0	21.6	74.0	3.0	1.3	75.4	72.7
Norway	664	88.5	7.0	88.5	3.3	1.2	90.5	86.7
Oman	1268	56.5	32.8	56.5	9.3	1.4	63.0	51.0
Qatar	770	56.8	29.6	56.8	11.3	2.2	61.0	52.5
Russian Federation	679	60.3	32.5	60.3	6.1	1.1	57.8	62.4
Saudi Arabia	537	51.6	38.2	51.6	8.8	1.3	55.9	47.1
Singapore	869	84.5	13.6	84.5	1.9	0.0	86.4	82.6
Slovenia	604	87.7	11.6	87.7	0.7	0.0	87.4	87.9
South Africa	1790	50.5	32.0	50.5	14.9	2.5	50.3	50.8
Sweden	578	85.6	8.6	85.6	4.7	1.0	85.2	86.1
Thailand	920	51.9	34.0	51.9	12.4	1.8	53.6	49.8
Turkey	858	77.5	16.4	77.5	6.0	0.1	80.3	74.6
United Arab Emirates	2572	64.2	29.0	64.2	6.1	0.7	69.2	59.1
United States	1452	69.7	24.8	69.7	3.9	1.6	72.8	66.4
International Avg (n=39)	36013	67.2	24.9	67.2	6.7	1.3	68.7	65.6
Buenos Aires, Argentina	442	42.5	27.8	42.5	15.2	14.5	43.5	41.5
Ontario, Canada	644	73.1	23.0	73.1	3.1	0.8	72.3	73.8
Quebec, Canada	553	87.5	9.6	87.5	2.0	0.9	86.2	88.9
Norway (8)	674	82.0	10.5	82.0	5.1	2.5	87.6	76.8
Abu Dhabi, UAE	691	62.5	28.4	62.5	8.2	0.9	70.3	54.4
Dubai, UAE	887	68.7	26.7	68.7	3.5	1.0	69.3	68.2
Florida, US	302	64.2	28.7	64.2	5.1	1.9	69.4	58.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S10_13B (S062173B): Earth Science / Reasoning Type: MC Key: A
Label: Climate and geography

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1476	27.3	27.3	24.7	18.2	27.1	1.6	1.1	23.4	31.4
Bahrain	708	27.1	27.1	21.0	28.9	19.2	1.8	2.0	29.5	25.0
Botswana	853	24.2	24.2	12.6	34.9	23.5	2.2	2.5	23.3	25.1
Canada	1229	35.7	35.7	17.2	19.2	25.3	1.5	1.1	31.6	39.5
Chile	695	31.2	31.2	23.4	22.2	18.1	3.0	2.2	29.9	32.3
Chinese Taipei	820	44.2	44.2	13.1	28.0	14.0	0.3	0.4	43.3	45.0
Egypt	1124	24.1	24.1	22.2	29.7	18.3	2.9	2.7	21.4	27.1
England	698	28.6	28.6	22.1	18.0	26.9	3.3	0.9	24.2	33.5
Georgia	583	30.7	30.7	18.4	27.4	16.4	4.3	2.8	28.0	32.8
Hong Kong SAR	586	30.1	30.1	19.4	22.7	26.9	0.8	0.1	24.9	34.6
Hungary	697	48.5	48.5	14.2	18.8	15.3	3.1	0.2	49.1	47.8
Iran, Islamic Rep. of	867	24.6	24.6	14.7	26.1	29.4	3.2	2.0	22.5	26.5
Ireland	664	38.8	38.8	17.4	18.6	21.9	2.7	0.6	36.7	41.0
Israel	798	24.2	24.2	22.5	19.5	27.9	3.3	2.6	18.7	29.5
Italy	631	49.8	49.8	12.1	25.0	9.8	2.6	0.7	45.4	53.8
Japan	672	30.7	30.7	23.0	30.6	13.7	1.5	0.4	28.8	32.7
Jordan	1131	25.8	25.8	20.9	32.5	15.8	3.2	1.7	23.6	28.2
Kazakhstan	695	53.9	53.9	11.7	6.9	22.7	2.8	2.0	54.9	53.0
Korea, Rep. of	759	31.6	31.6	23.4	28.9	15.4	0.3	0.4	26.7	36.0
Kuwait	654	33.4	33.4	21.4	22.9	14.3	4.7	3.3	28.6	38.0
Lebanon	520	20.1	20.1	16.3	26.0	18.2	8.8	10.6	18.8	21.7
Lithuania	617	40.9	40.9	17.2	15.2	22.7	4.0	0.0	34.8	46.9
Malaysia	1394	14.8	14.8	21.4	31.9	28.5	1.4	1.9	15.0	14.7
Malta	540	23.1	23.1	28.5	21.0	21.8	3.9	1.7	21.0	25.1
Morocco	1879	29.4	29.4	21.9	24.6	16.4	5.5	2.2	28.9	29.9
New Zealand	1123	25.6	25.6	24.7	16.8	29.6	1.3	1.9	21.1	29.9
Norway	664	33.1	33.1	19.6	25.0	15.7	4.5	2.2	26.4	39.3
Oman	1268	30.4	30.4	18.0	28.2	18.1	3.3	2.0	30.6	30.2
Qatar	770	24.7	24.7	21.1	26.6	21.1	3.7	2.8	25.8	23.5
Russian Federation	679	41.0	41.0	16.0	17.9	19.5	3.6	2.1	38.9	42.8
Saudi Arabia	534	25.6	25.6	19.5	27.5	23.5	2.3	1.6	23.5	27.9
Singapore	869	22.6	22.6	23.2	22.5	31.0	0.5	0.1	19.2	26.1
Slovenia	604	56.7	56.7	11.0	22.5	4.3	5.5	0.0	52.9	59.7
South Africa	1790	25.0	25.0	20.5	28.3	20.0	2.9	3.2	20.7	29.4
Sweden	578	38.9	38.9	12.3	24.0	16.8	5.7	2.3	29.8	48.0
Thailand	922	14.0	14.0	21.0	23.0	37.2	2.7	2.2	13.5	14.7
Turkey	858	23.4	23.4	23.7	20.8	30.5	1.1	0.6	19.7	27.1
United Arab Emirates	2572	29.9	29.9	17.7	26.6	22.4	2.2	1.2	30.7	29.1
United States	1452	32.5	32.5	18.5	20.6	25.2	1.1	2.1	28.8	36.4
International Avg (n=39)	35973	31.2	31.2	19.2	23.8	21.1	2.9	1.8	28.6	33.7
Buenos Aires, Argentina	440	24.3	24.3	17.0	18.1	13.1	11.2	16.3	26.3	22.3
Ontario, Canada	642	38.8	38.8	16.4	16.5	25.9	1.2	1.2	34.6	42.6
Quebec, Canada	546	30.5	30.5	18.5	24.2	24.6	1.1	1.2	27.1	33.9
Norway (8)	674	32.1	32.1	20.0	22.2	19.5	3.5	2.7	25.2	38.2
Abu Dhabi, UAE	691	26.2	26.2	20.9	26.1	23.1	2.0	1.7	29.0	23.2
Dubai, UAE	887	32.3	32.3	14.3	26.0	23.6	2.0	1.8	30.8	34.0
Florida, US	302	27.5	27.5	20.4	25.2	24.1	0.9	1.9	29.3	25.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_01A (S052090A): Biology / Knowing Type: MC Key: A
Label: Influenza: Cause

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	54.4	54.4	2.9	38.1	2.7	1.8	0.1	52.4	56.5
Bahrain	693	68.8	68.8	4.5	22.1	3.0	1.5	0.0	73.8	64.3
Botswana	855	39.1	39.1	14.6	38.9	6.4	1.0	0.0	40.4	37.7
Canada	1244	64.8	64.8	1.2	30.9	2.2	0.7	0.2	64.1	65.5
Chile	702	78.5	78.5	1.5	18.1	0.3	1.6	0.0	80.7	76.6
Chinese Taipei	819	79.1	79.1	1.0	19.2	0.5	0.0	0.2	84.1	74.6
Egypt	1142	50.8	50.8	7.0	32.9	7.5	1.7	0.0	50.8	50.8
England	694	64.1	64.1	3.1	30.3	1.8	0.7	0.0	64.6	63.6
Georgia	575	72.3	72.3	0.2	25.8	0.0	1.8	0.0	71.3	73.0
Hong Kong SAR	583	51.4	51.4	3.9	42.7	0.5	1.4	0.0	52.6	50.2
Hungary	706	71.9	71.9	0.0	26.6	0.4	1.0	0.0	69.1	74.9
Iran, Islamic Rep. of	863	85.4	85.4	2.0	10.5	1.2	0.9	0.0	87.2	83.8
Ireland	662	60.1	60.1	2.3	35.5	1.2	0.9	0.0	60.0	60.2
Israel	796	65.9	65.9	2.6	27.5	2.0	1.6	0.4	65.2	66.7
Italy	640	71.4	71.4	0.2	27.5	0.3	0.6	0.0	70.6	72.2
Japan	684	94.7	94.7	0.2	5.0	0.1	0.0	0.0	94.9	94.6
Jordan	1121	82.6	82.6	1.9	11.7	2.2	1.7	0.0	86.9	78.1
Kazakhstan	694	86.5	86.5	1.8	10.2	0.3	1.1	0.2	89.6	83.7
Korea, Rep. of	765	85.1	85.1	0.0	14.3	0.3	0.4	0.0	86.9	83.4
Kuwait	657	62.5	62.5	5.1	22.7	4.4	4.9	0.5	67.2	58.0
Lebanon	534	61.6	61.6	1.9	26.4	3.9	6.3	0.0	63.4	59.6
Lithuania	610	65.8	65.8	0.4	32.2	0.1	1.5	0.0	64.6	67.0
Malaysia	1395	52.3	52.3	5.9	38.1	3.3	0.3	0.2	54.7	49.9
Malta	546	57.0	57.0	2.3	38.5	0.8	1.5	0.0	56.0	57.9
Morocco	1892	62.8	62.8	3.3	24.6	6.3	2.9	0.1	61.2	64.1
New Zealand	1146	59.8	59.8	2.3	31.9	2.8	2.6	0.5	62.5	57.4
Norway	677	46.8	46.8	0.1	48.3	1.1	3.5	0.2	48.1	45.4
Oman	1262	72.9	72.9	4.8	17.1	4.1	0.8	0.3	77.3	69.0
Qatar	772	64.1	64.1	4.9	25.6	2.9	2.3	0.2	67.5	60.6
Russian Federation	676	86.2	86.2	0.4	9.9	1.4	1.8	0.3	90.8	81.8
Saudi Arabia	544	70.0	70.0	1.6	21.1	4.6	2.1	0.6	64.7	75.3
Singapore	871	63.6	63.6	1.0	34.6	0.4	0.4	0.0	66.2	60.8
Slovenia	602	67.1	67.1	0.2	30.8	0.6	1.2	0.0	66.2	67.9
South Africa	1798	38.5	38.5	12.3	41.8	6.1	1.3	0.0	34.7	42.9
Sweden	584	67.3	67.3	0.3	28.2	0.5	3.6	0.1	65.7	68.8
Thailand	923	56.9	56.9	4.6	32.5	4.2	1.7	0.1	57.4	56.3
Turkey	864	52.4	52.4	1.5	44.3	1.1	0.7	0.0	53.2	51.5
United Arab Emirates	2567	71.1	71.1	3.7	19.9	3.2	2.0	0.0	73.3	68.8
United States	1457	65.3	65.3	1.9	30.2	1.7	0.8	0.2	62.0	68.5
International Avg (n=39)	36094	65.9	65.9	2.8	27.4	2.2	1.6	0.1	66.7	65.2
Buenos Aires, Argentina	459	57.0	57.0	0.9	29.7	3.5	8.1	0.8	63.8	50.8
Ontario, Canada	645	65.9	65.9	1.1	29.1	2.7	0.9	0.4	62.6	69.3
Quebec, Canada	555	61.7	61.7	0.8	36.7	0.6	0.2	0.0	65.9	56.7
Norway (8)	672	45.7	45.7	0.5	52.3	0.6	0.9	0.0	44.4	46.7
Abu Dhabi, UAE	690	68.0	68.0	4.5	21.7	2.9	2.7	0.1	70.8	65.2
Dubai, UAE	883	76.5	76.5	2.8	18.3	1.8	0.6	0.0	77.0	76.0
Florida, US	301	71.0	71.0	3.1	23.2	1.2	1.5	0.0	69.5	72.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_01B (S052090B): Biology / Knowing Type: CR 1 Point
Label: Influenza: How is it spread

COUNTRY	N	10 %	70 %	71 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	40.5	1.1	33.5	16.7	40.5	8.2	0.1	41.3	39.6
Bahrain	693	14.9	4.4	46.7	21.4	14.9	12.6	0.0	20.1	10.1
Botswana	855	7.5	4.6	41.3	35.4	7.5	11.3	0.0	10.5	4.5
Canada	1249	32.7	13.0	32.6	16.5	32.7	5.0	0.2	35.6	29.5
Chile	702	16.5	10.6	24.5	22.0	16.5	26.5	0.0	17.9	15.2
Chinese Taipei	819	35.0	12.3	18.9	24.2	35.0	9.4	0.2	37.9	32.3
Egypt	1142	8.5	3.2	14.7	53.3	8.5	20.3	0.0	8.2	8.8
England	694	36.1	7.7	36.3	12.4	36.1	7.5	0.0	37.0	35.1
Georgia	575	5.0	1.7	42.0	28.2	5.0	23.1	0.0	4.6	5.3
Hong Kong SAR	583	18.8	26.7	18.3	29.0	18.8	7.0	0.2	20.1	17.6
Hungary	706	18.0	8.2	42.9	18.1	18.0	12.8	0.0	19.9	16.1
Iran, Islamic Rep. of	863	2.6	4.0	26.4	51.8	2.6	15.2	0.0	1.8	3.3
Ireland	662	32.5	13.7	32.7	13.7	32.5	7.5	0.0	34.0	31.0
Israel	796	28.0	6.5	33.8	16.4	28.0	14.9	0.5	28.2	27.8
Italy	640	14.3	7.4	39.0	23.8	14.3	15.5	0.0	9.3	19.4
Japan	684	21.6	14.0	36.7	23.3	21.6	4.5	0.0	20.9	22.3
Jordan	1121	24.2	6.2	6.8	48.7	24.2	14.1	0.0	30.6	17.5
Kazakhstan	694	44.0	15.3	2.8	18.6	44.0	19.1	0.2	50.0	38.7
Korea, Rep. of	765	8.6	9.2	29.8	46.2	8.6	6.3	0.0	8.9	8.3
Kuwait	658	10.0	1.3	28.3	54.5	10.0	5.3	0.7	12.5	7.5
Lebanon	549	7.4	2.2	15.0	38.8	7.4	36.6	0.0	5.6	9.3
Lithuania	610	19.6	2.8	40.9	24.3	19.6	12.4	0.0	16.8	22.3
Malaysia	1395	4.6	5.1	18.9	61.1	4.6	10.2	0.2	4.0	5.2
Malta	546	14.3	8.1	44.9	18.1	14.3	14.6	0.0	16.2	12.5
Morocco	1892	5.6	8.2	21.3	33.0	5.6	31.8	0.1	6.0	5.4
New Zealand	1146	30.2	11.9	35.2	14.3	30.2	8.0	0.5	34.3	26.4
Norway	677	34.9	11.2	35.0	10.9	34.9	7.7	0.2	35.7	34.0
Oman	1259	5.7	6.8	23.5	51.4	5.7	12.3	0.3	7.6	4.0
Qatar	772	19.9	5.0	25.3	28.7	19.9	20.9	0.2	21.6	18.1
Russian Federation	676	21.7	5.0	27.9	31.3	21.7	13.8	0.3	24.1	19.3
Saudi Arabia	544	5.2	1.3	21.4	45.8	5.2	25.6	0.6	5.1	5.3
Singapore	871	38.4	4.2	35.5	18.0	38.4	3.9	0.0	37.6	39.3
Slovenia	602	14.9	12.0	35.0	29.8	14.9	8.3	0.0	13.5	16.1
South Africa	1798	7.7	3.1	21.1	60.6	7.7	7.3	0.1	8.4	6.8
Sweden	584	26.2	17.5	30.6	17.4	26.2	8.2	0.1	27.2	25.3
Thailand	923	4.0	3.1	31.6	40.2	4.0	21.0	0.1	3.6	4.4
Turkey	864	11.5	2.6	47.3	27.9	11.5	10.7	0.0	10.6	12.4
United Arab Emirates	2567	11.8	9.4	31.0	33.3	11.8	14.4	0.0	13.6	10.0
United States	1457	30.6	7.5	38.8	17.2	30.6	5.8	0.2	33.9	27.4
International Avg (n=39)	36112	18.8	7.6	29.9	30.2	18.8	13.3	0.1	19.9	17.8
Buenos Aires, Argentina	457	16.4	8.3	19.4	22.9	16.4	32.1	0.8	19.9	13.3
Ontario, Canada	647	37.5	12.6	28.3	16.4	37.5	4.9	0.4	41.7	33.1
Quebec, Canada	558	24.1	14.7	39.0	17.2	24.1	4.8	0.0	24.6	23.5
Norway (8)	672	34.3	14.8	30.4	12.8	34.3	7.6	0.0	36.6	32.4
Abu Dhabi, UAE	690	9.7	9.4	27.9	37.5	9.7	15.4	0.1	11.1	8.3
Dubai, UAE	883	20.7	12.0	36.0	23.9	20.7	7.4	0.0	23.9	17.1
Florida, US	301	28.6	7.5	38.3	18.0	28.6	7.6	0.0	32.8	23.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S11_02 (S052262): Biology / Applying Type: MC Key: A
Label: Biceps and triceps

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	50.9	50.9	23.2	17.6	7.5	0.8	0.1	51.1	50.6
Bahrain	693	35.8	35.8	23.2	26.7	12.4	1.8	0.0	43.2	29.0
Botswana	853	43.6	43.6	19.6	24.8	11.0	1.0	0.1	38.1	49.0
Canada	1247	51.5	51.5	21.7	18.1	7.4	1.2	0.2	50.9	52.0
Chile	702	44.9	44.9	23.7	19.3	11.4	0.7	0.0	38.1	50.5
Chinese Taipei	819	59.8	59.8	14.2	20.2	5.6	0.0	0.2	64.2	55.7
Egypt	1142	26.6	26.6	24.9	27.1	19.9	1.5	0.0	23.5	30.1
England	694	52.6	52.6	19.0	21.5	6.5	0.2	0.0	56.9	48.1
Georgia	575	39.2	39.2	25.0	22.1	10.6	2.8	0.4	34.3	43.0
Hong Kong SAR	583	49.6	49.6	23.3	19.7	7.1	0.2	0.2	49.1	50.0
Hungary	706	57.9	57.9	22.2	12.9	6.5	0.5	0.0	55.5	60.4
Iran, Islamic Rep. of	863	46.4	46.4	18.8	24.1	9.2	1.5	0.0	49.5	43.7
Ireland	662	58.9	58.9	19.3	16.4	4.8	0.6	0.0	62.4	55.5
Israel	796	40.9	40.9	23.0	22.7	11.7	1.3	0.5	40.5	41.2
Italy	640	58.1	58.1	20.9	14.6	6.0	0.4	0.0	58.4	57.7
Japan	684	83.7	83.7	4.6	11.3	0.3	0.2	0.0	85.1	82.1
Jordan	1122	24.7	24.7	23.6	31.5	16.7	3.4	0.1	27.1	22.3
Kazakhstan	695	65.2	65.2	14.6	14.3	4.4	1.4	0.2	63.5	66.6
Korea, Rep. of	765	70.3	70.3	6.9	19.0	3.7	0.1	0.0	71.9	68.8
Kuwait	665	31.1	31.1	23.6	27.1	11.5	6.0	0.6	33.8	28.6
Lebanon	547	34.2	34.2	21.7	29.0	8.0	7.2	0.0	33.3	35.1
Lithuania	609	54.6	54.6	19.0	17.8	8.3	0.3	0.0	53.2	56.1
Malaysia	1395	43.0	43.0	26.2	17.8	12.5	0.3	0.3	40.8	45.1
Malta	546	45.8	45.8	20.5	24.7	7.9	0.7	0.2	47.8	44.0
Morocco	1891	23.2	23.2	25.1	31.5	16.5	3.6	0.1	23.1	23.2
New Zealand	1146	51.6	51.6	21.7	17.1	7.4	1.6	0.5	50.5	52.6
Norway	677	46.1	46.1	32.5	14.8	5.7	0.7	0.2	45.6	46.7
Oman	1261	33.9	33.9	21.3	31.9	11.5	1.1	0.3	32.9	34.7
Qatar	772	39.9	39.9	21.1	29.1	8.5	1.2	0.2	41.6	38.1
Russian Federation	676	65.5	65.5	12.6	15.5	5.8	0.3	0.3	60.9	69.9
Saudi Arabia	544	30.6	30.6	26.3	28.5	12.7	1.3	0.6	31.7	29.6
Singapore	871	61.0	61.0	18.9	14.5	5.1	0.4	0.0	60.5	61.6
Slovenia	602	60.0	60.0	18.8	16.5	3.9	0.8	0.0	57.3	62.4
South Africa	1798	37.1	37.1	24.0	25.1	12.5	1.2	0.1	37.5	36.7
Sweden	584	58.1	58.1	23.6	11.0	4.5	2.7	0.1	59.4	57.0
Thailand	922	39.0	39.0	21.8	25.0	12.2	1.9	0.1	41.5	36.1
Turkey	864	47.8	47.8	17.7	23.3	11.1	0.2	0.0	52.1	43.1
United Arab Emirates	2567	38.2	38.2	23.0	26.6	10.9	1.3	0.0	40.1	36.1
United States	1457	51.8	51.8	20.1	20.7	6.4	0.8	0.2	51.7	52.0
International Avg (n=39)	36114	47.5	47.5	20.8	21.3	8.9	1.4	0.1	47.7	47.3
Buenos Aires, Argentina	457	37.1	37.1	25.4	18.6	11.3	6.2	1.4	35.7	38.4
Ontario, Canada	646	53.9	53.9	22.5	16.6	5.9	0.7	0.4	57.0	50.8
Quebec, Canada	557	44.2	44.2	24.7	19.3	9.8	2.0	0.0	38.5	51.2
Norway (8)	672	45.4	45.4	30.9	15.1	7.7	0.9	0.0	42.6	47.7
Abu Dhabi, UAE	690	33.7	33.7	25.1	28.8	11.3	1.0	0.1	37.5	29.8
Dubai, UAE	883	49.6	49.6	19.7	22.5	7.3	0.9	0.0	49.1	50.2
Florida, US	301	48.5	48.5	20.5	23.1	6.7	0.7	0.5	50.3	46.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_03 (S052267): Biology / Knowing Type: MC Key: C
Label: Acquired characteristics

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	48.0	7.8	33.1	48.0	8.9	2.2	0.1	49.6	46.3
Bahrain	693	28.9	15.8	34.3	28.9	18.6	2.4	0.0	30.6	27.3
Botswana	853	21.9	10.7	49.3	21.9	16.8	1.1	0.3	22.8	20.9
Canada	1222	46.4	8.3	33.8	46.4	10.0	1.3	0.2	44.7	48.2
Chile	702	31.6	14.0	46.2	31.6	6.8	1.3	0.0	31.6	31.7
Chinese Taipei	819	89.1	3.8	2.8	89.1	3.6	0.5	0.2	92.9	85.6
Egypt	1142	22.6	15.6	41.2	22.6	18.8	1.6	0.1	22.1	23.3
England	694	51.3	5.2	29.2	51.3	9.4	5.0	0.0	60.2	41.9
Georgia	575	61.5	12.3	14.5	61.5	9.9	1.4	0.4	68.8	55.7
Hong Kong SAR	583	84.1	3.6	4.5	84.1	7.3	0.3	0.2	86.2	82.0
Hungary	706	65.5	8.1	17.9	65.5	6.2	2.4	0.0	65.9	65.0
Iran, Islamic Rep. of	863	47.1	11.4	20.2	47.1	20.1	1.2	0.1	52.0	42.6
Ireland	662	49.4	5.8	29.2	49.4	12.3	3.3	0.0	55.2	43.9
Israel	796	51.7	7.5	29.8	51.7	7.6	2.8	0.6	53.9	49.5
Italy	640	30.7	7.5	39.7	30.7	10.2	11.9	0.0	31.4	30.0
Japan	684	48.3	11.3	30.9	48.3	8.3	1.3	0.0	55.3	40.7
Jordan	1122	37.9	14.8	26.5	37.9	19.3	1.5	0.1	45.1	30.4
Kazakhstan	695	57.1	14.0	13.2	57.1	12.5	3.2	0.2	57.4	56.9
Korea, Rep. of	765	63.7	8.9	21.4	63.7	5.9	0.1	0.0	64.4	63.1
Kuwait	665	21.6	18.4	38.0	21.6	15.6	5.6	0.8	21.3	22.1
Lebanon	532	23.5	12.7	35.5	23.5	16.4	11.8	0.1	20.6	26.6
Lithuania	609	54.6	9.5	18.6	54.6	14.7	2.7	0.0	61.8	47.5
Malaysia	1395	24.3	24.1	38.8	24.3	11.2	1.4	0.3	25.8	22.8
Malta	546	34.0	15.5	37.7	34.0	8.3	4.2	0.2	36.8	31.4
Morocco	1891	18.3	11.8	55.8	18.3	10.2	3.7	0.1	17.9	18.7
New Zealand	1146	41.8	11.5	32.3	41.8	9.8	4.1	0.5	44.3	39.5
Norway	677	25.9	11.9	41.0	25.9	11.7	9.3	0.2	25.6	26.2
Oman	1262	24.8	16.3	37.5	24.8	19.6	1.5	0.3	27.4	22.5
Qatar	772	30.3	15.8	39.0	30.3	12.9	1.8	0.2	31.9	28.6
Russian Federation	676	78.2	2.8	6.7	78.2	8.6	3.4	0.3	77.3	79.1
Saudi Arabia	544	17.4	27.2	37.3	17.4	16.6	0.9	0.6	18.6	16.1
Singapore	871	70.7	6.9	10.0	70.7	11.6	0.8	0.0	78.7	61.9
Slovenia	602	56.2	8.0	22.1	56.2	10.8	2.9	0.0	59.9	53.1
South Africa	1798	27.5	17.0	35.0	27.5	18.8	1.3	0.3	28.6	26.2
Sweden	584	42.5	8.8	34.1	42.5	12.1	2.4	0.1	48.4	37.4
Thailand	922	43.9	17.3	12.5	43.9	25.8	0.4	0.2	48.4	38.5
Turkey	864	78.4	4.2	4.3	78.4	12.8	0.2	0.0	82.7	73.7
United Arab Emirates	2567	31.3	17.1	36.8	31.3	13.0	1.8	0.0	31.3	31.4
United States	1457	54.0	8.0	27.8	54.0	8.5	1.6	0.2	59.7	48.2
International Avg (n=39)	36075	44.5	11.6	28.7	44.5	12.3	2.7	0.2	47.1	42.0
Buenos Aires, Argentina	459	28.3	9.6	42.2	28.3	6.2	11.9	1.8	31.7	25.2
Ontario, Canada	638	49.1	8.6	32.3	49.1	8.1	1.6	0.4	48.5	49.6
Quebec, Canada	542	42.1	6.4	37.1	42.1	13.8	0.6	0.0	37.8	47.4
Norway (8)	672	22.7	12.3	44.5	22.7	11.8	8.7	0.0	22.5	23.0
Abu Dhabi, UAE	690	29.8	18.9	37.9	29.8	11.3	2.0	0.1	31.4	28.1
Dubai, UAE	883	36.0	12.5	36.1	36.0	13.5	1.8	0.0	34.4	37.8
Florida, US	301	49.9	8.6	27.0	49.9	11.1	2.9	0.5	53.9	45.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_04 (S052273): Biology / Reasoning Type: CR 2 Points
Label: Flooding leads to shortage/disease

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	9.1	36.6	47.0	45.7	9.1	7.2	0.1	8.7	9.6
Bahrain	693	24.8	26.6	31.2	51.5	24.8	16.7	0.6	31.8	18.4
Botswana	852	17.0	27.2	51.1	44.2	17.0	4.2	0.5	20.2	13.8
Canada	1249	23.3	32.2	32.6	55.5	23.3	11.7	0.2	24.7	21.7
Chile	702	9.1	20.9	34.8	30.0	9.1	35.2	0.0	10.9	7.7
Chinese Taipei	819	29.5	30.2	22.9	59.7	29.5	17.2	0.2	34.3	25.1
Egypt	1142	6.3	16.9	50.9	23.2	6.3	25.8	0.1	7.9	4.5
England	694	33.4	35.4	24.9	68.9	33.4	6.2	0.0	38.5	28.1
Georgia	575	15.1	24.8	29.5	39.9	15.1	30.2	0.4	16.4	14.1
Hong Kong SAR	583	28.6	34.4	29.4	63.0	28.6	7.4	0.2	29.1	28.0
Hungary	706	10.8	26.7	41.6	37.5	10.8	20.9	0.0	11.6	10.0
Iran, Islamic Rep. of	863	3.6	18.6	60.1	22.2	3.6	17.6	0.1	3.7	3.5
Ireland	662	22.1	31.9	36.9	54.0	22.1	9.1	0.0	20.6	23.5
Israel	796	17.4	27.8	33.6	45.2	17.4	20.6	0.6	20.0	14.7
Italy	640	3.5	14.7	50.6	18.2	3.5	31.2	0.0	3.3	3.8
Japan	684	33.1	30.2	25.9	63.2	33.1	10.8	0.0	37.0	28.9
Jordan	1122	9.3	25.4	48.5	34.7	9.3	16.8	0.1	13.0	5.4
Kazakhstan	695	15.5	35.5	31.7	51.1	15.5	17.1	0.2	17.9	13.5
Korea, Rep. of	765	9.0	34.1	46.7	43.1	9.0	10.2	0.0	7.2	10.7
Kuwait	661	12.8	21.0	36.1	33.8	12.8	29.3	0.8	15.3	10.3
Lebanon	550	0.4	5.9	31.0	6.3	0.4	62.2	0.4	0.8	0.0
Lithuania	609	12.4	35.8	36.3	48.2	12.4	15.4	0.0	15.2	9.7
Malaysia	1395	10.3	19.8	54.7	30.1	10.3	14.8	0.3	12.2	8.5
Malta	546	14.8	24.7	37.2	39.5	14.8	23.1	0.2	17.3	12.5
Morocco	1892	5.2	17.7	44.3	22.9	5.2	32.6	0.1	6.3	4.3
New Zealand	1146	17.0	35.1	38.4	52.2	17.0	9.0	0.5	19.5	14.8
Norway	677	20.1	33.9	33.7	54.0	20.1	11.8	0.5	23.0	17.2
Oman	1261	17.2	30.6	41.2	47.7	17.2	10.7	0.3	22.9	12.0
Qatar	772	19.8	23.2	38.6	43.1	19.8	18.2	0.2	21.4	18.2
Russian Federation	676	20.1	35.2	28.5	55.3	20.1	15.9	0.3	22.2	18.1
Saudi Arabia	544	9.2	15.1	51.1	24.3	9.2	24.1	0.6	11.1	7.4
Singapore	871	35.4	36.5	24.1	72.0	35.4	4.0	0.0	33.9	37.2
Slovenia	602	38.8	36.8	17.5	75.6	38.8	6.9	0.0	45.6	33.0
South Africa	1798	8.0	14.4	65.2	22.4	8.0	12.0	0.3	11.0	4.6
Sweden	584	12.4	36.1	37.5	48.5	12.4	13.9	0.1	13.4	11.5
Thailand	922	9.1	29.8	42.8	38.9	9.1	18.1	0.2	11.8	6.0
Turkey	864	26.8	22.7	39.3	49.5	26.8	11.3	0.0	30.8	22.5
United Arab Emirates	2567	16.2	25.4	46.0	41.6	16.2	12.3	0.0	19.7	12.5
United States	1457	26.4	38.3	30.3	64.7	26.4	4.8	0.2	29.8	23.0
International Avg (n=39)	36115	16.7	27.4	38.6	44.1	16.7	17.1	0.2	19.0	14.6
Buenos Aires, Argentina	459	2.1	15.5	27.5	17.6	2.1	52.8	2.1	2.1	2.1
Ontario, Canada	647	25.5	32.0	32.4	57.6	25.5	9.6	0.4	28.4	22.6
Quebec, Canada	558	21.9	30.9	32.6	52.8	21.9	14.6	0.0	20.6	23.4
Norway (8)	672	16.5	32.2	37.1	48.7	16.5	14.2	0.0	22.0	11.6
Abu Dhabi, UAE	690	10.2	24.5	51.1	34.7	10.2	14.1	0.1	14.4	5.9
Dubai, UAE	883	28.3	27.5	36.3	55.8	28.3	7.9	0.0	32.6	23.5
Florida, US	301	23.4	37.7	29.4	61.1	23.4	8.7	0.9	29.7	16.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S11_05A (S052015A): Chemistry / Applying Type: MC Key: A
Label: Symbols represent elements: O

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	76.8	76.8	14.7	8.4	0.1	77.6	76.0
Bahrain	693	79.3	79.3	11.2	8.9	0.6	84.5	74.5
Botswana	853	49.7	49.7	20.4	29.3	0.6	55.0	44.4
Canada	1245	68.9	68.9	23.9	6.8	0.4	71.7	65.9
Chile	702	76.5	76.5	11.0	12.4	0.1	78.4	74.9
Chinese Taipei	819	92.4	92.4	6.2	1.3	0.2	94.6	90.3
Egypt	1142	67.8	67.8	8.8	23.1	0.3	68.7	66.7
England	694	80.8	80.8	11.5	7.3	0.4	80.3	81.4
Georgia	575	79.2	79.2	5.2	15.3	0.4	86.2	73.6
Hong Kong SAR	583	82.2	82.2	14.0	3.6	0.2	82.3	82.1
Hungary	706	86.8	86.8	8.4	4.9	0.0	86.9	86.7
Iran, Islamic Rep. of	863	77.3	77.3	15.5	7.2	0.1	77.0	77.6
Ireland	662	75.6	75.6	16.3	8.1	0.0	77.3	74.1
Israel	796	88.5	88.5	4.3	6.1	1.0	91.3	85.8
Italy	640	87.4	87.4	5.5	6.9	0.2	87.5	87.3
Japan	684	94.2	94.2	1.6	4.1	0.0	96.2	92.1
Jordan	1122	84.7	84.7	4.6	10.5	0.1	90.9	78.3
Kazakhstan	695	90.9	90.9	4.1	4.8	0.2	91.2	90.7
Korea, Rep. of	765	91.8	91.8	3.1	5.0	0.0	93.8	89.9
Kuwait	663	81.7	81.7	8.9	8.5	1.0	84.5	79.0
Lebanon	549	75.6	75.6	4.5	19.4	0.5	77.6	73.4
Lithuania	609	93.6	93.6	3.5	2.9	0.0	96.3	91.1
Malaysia	1395	77.1	77.1	15.5	7.1	0.3	80.8	73.3
Malta	545	76.2	76.2	16.2	7.4	0.2	77.8	74.7
Morocco	1891	71.8	71.8	12.3	15.7	0.3	71.2	72.3
New Zealand	1146	78.8	78.8	13.1	7.5	0.7	81.7	76.1
Norway	677	89.3	89.3	5.6	4.6	0.5	89.3	89.3
Oman	1261	80.3	80.3	10.1	9.3	0.4	85.4	75.8
Qatar	772	73.9	73.9	11.5	14.4	0.2	77.5	70.3
Russian Federation	676	90.5	90.5	2.8	6.5	0.3	89.4	91.6
Saudi Arabia	539	72.2	72.2	16.7	10.4	0.6	75.5	69.0
Singapore	871	91.3	91.3	6.5	2.1	0.2	92.7	89.7
Slovenia	602	95.0	95.0	3.6	1.4	0.0	95.4	94.6
South Africa	1798	60.4	60.4	18.9	20.4	0.4	64.5	55.7
Sweden	584	82.1	82.1	8.2	9.4	0.3	82.1	82.2
Thailand	917	68.5	68.5	13.2	18.0	0.4	75.1	60.7
Turkey	864	85.2	85.2	8.4	6.4	0.0	89.6	80.4
United Arab Emirates	2567	80.7	80.7	10.5	8.7	0.1	84.8	76.4
United States	1457	85.1	85.1	11.0	3.6	0.3	87.0	83.2
International Avg (n=39)	36101	80.5	80.5	10.0	9.2	0.3	82.8	78.2
Buenos Aires, Argentina	442	48.0	48.0	12.7	36.0	3.3	45.1	50.7
Ontario, Canada	645	62.2	62.2	30.3	6.8	0.6	66.4	57.9
Quebec, Canada	556	89.7	89.7	5.7	4.5	0.0	89.1	90.5
Norway (8)	672	81.3	81.3	10.0	8.7	0.0	84.0	78.9
Abu Dhabi, UAE	690	76.2	76.2	10.3	13.4	0.1	82.9	69.2
Dubai, UAE	883	89.8	89.8	7.6	2.6	0.0	91.6	87.8
Florida, US	301	81.7	81.7	12.1	5.0	1.2	86.2	76.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_05B (S052015B): Chemistry / Applying Type: MC Key: A
Label: Symbols represent elements: K

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	69.3	69.3	22.1	8.5	0.1	68.0	70.6
Bahrain	693	71.2	71.2	18.2	10.0	0.6	76.9	66.0
Botswana	852	43.2	43.2	24.9	31.3	0.6	46.5	39.8
Canada	1242	61.9	61.9	30.8	6.9	0.4	63.2	60.5
Chile	702	69.6	69.6	17.0	13.3	0.1	75.7	64.4
Chinese Taipei	819	92.2	92.2	5.6	2.0	0.2	94.4	90.2
Egypt	1142	60.9	60.9	14.5	24.3	0.3	63.5	57.9
England	694	77.8	77.8	12.9	8.9	0.4	77.3	78.4
Georgia	575	77.1	77.1	5.8	16.7	0.4	89.1	67.5
Hong Kong SAR	583	73.9	73.9	22.1	3.8	0.2	71.5	76.3
Hungary	706	83.5	83.5	11.5	5.0	0.0	84.0	83.0
Iran, Islamic Rep. of	863	60.7	60.7	30.2	9.0	0.1	59.8	61.6
Ireland	662	70.6	70.6	20.4	9.0	0.0	72.8	68.5
Israel	796	85.6	85.6	7.4	5.9	1.0	88.3	82.9
Italy	640	79.9	79.9	13.1	6.8	0.2	79.9	79.9
Japan	684	89.5	89.5	4.5	6.1	0.0	92.0	86.8
Jordan	1122	78.6	78.6	10.1	11.2	0.1	86.4	70.4
Kazakhstan	695	89.7	89.7	4.8	5.4	0.2	90.4	89.1
Korea, Rep. of	765	85.0	85.0	7.9	7.1	0.0	89.2	81.1
Kuwait	660	77.3	77.3	13.8	8.0	1.0	83.6	71.0
Lebanon	549	73.4	73.4	7.2	19.0	0.5	78.5	67.9
Lithuania	609	92.1	92.1	3.7	4.1	0.0	95.2	89.1
Malaysia	1395	61.5	61.5	29.4	8.9	0.3	63.2	59.7
Malta	545	67.7	67.7	24.2	7.9	0.2	69.2	66.2
Morocco	1891	68.7	68.7	14.8	16.3	0.3	71.3	66.5
New Zealand	1146	71.8	71.8	19.0	8.6	0.7	75.4	68.5
Norway	677	83.6	83.6	9.8	6.1	0.5	84.3	83.0
Oman	1262	73.1	73.1	16.4	10.2	0.4	80.6	66.4
Qatar	772	72.3	72.3	13.4	14.1	0.2	78.6	65.9
Russian Federation	676	89.1	89.1	3.2	7.4	0.3	87.5	90.7
Saudi Arabia	543	58.9	58.9	28.0	12.5	0.6	65.3	52.5
Singapore	871	90.5	90.5	7.3	2.0	0.2	93.0	87.6
Slovenia	602	94.7	94.7	3.6	1.7	0.0	95.2	94.3
South Africa	1798	58.9	58.9	19.0	21.8	0.4	62.7	54.3
Sweden	584	78.6	78.6	11.6	9.5	0.3	76.3	80.6
Thailand	916	63.6	63.6	17.7	18.3	0.4	68.6	57.8
Turkey	864	79.9	79.9	13.7	6.5	0.0	86.7	72.5
United Arab Emirates	2567	75.4	75.4	14.1	10.5	0.1	80.9	69.5
United States	1457	80.6	80.6	14.8	4.4	0.3	82.3	79.0
International Avg (n=39)	36098	75.2	75.2	14.6	10.0	0.3	78.1	72.3
Buenos Aires, Argentina	442	45.3	45.3	13.7	37.7	3.3	46.8	43.9
Ontario, Canada	644	50.8	50.8	41.1	7.5	0.6	50.4	51.3
Quebec, Canada	555	88.7	88.7	6.7	4.6	0.0	88.0	89.7
Norway (8)	672	72.9	72.9	16.9	10.2	0.0	74.0	71.8
Abu Dhabi, UAE	690	69.2	69.2	15.3	15.4	0.1	79.5	58.5
Dubai, UAE	883	85.5	85.5	10.8	3.7	0.0	87.3	83.5
Florida, US	301	78.4	78.4	14.8	5.5	1.2	81.0	75.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_05C (S052015C): Chemistry / Applying Type: MC Key: B
Label: Symbols represent elements: H2SO4

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	72.4	18.7	72.4	8.8	0.1	72.7	72.0
Bahrain	693	73.1	17.6	73.1	8.7	0.6	80.5	66.2
Botswana	852	43.2	26.6	43.2	29.6	0.6	49.3	37.2
Canada	1243	63.2	29.5	63.2	7.0	0.4	65.3	60.9
Chile	702	73.9	14.3	73.9	11.8	0.1	77.9	70.5
Chinese Taipei	819	91.4	6.8	91.4	1.6	0.2	93.7	89.2
Egypt	1142	65.4	12.4	65.4	21.9	0.3	67.7	62.8
England	694	79.0	12.6	79.0	8.0	0.4	77.4	80.7
Georgia	575	80.8	5.2	80.8	13.6	0.4	90.3	73.1
Hong Kong SAR	583	75.8	20.9	75.8	3.1	0.2	79.7	71.9
Hungary	706	88.8	7.5	88.8	3.7	0.0	89.2	88.5
Iran, Islamic Rep. of	863	69.9	20.6	69.9	9.4	0.1	68.5	71.2
Ireland	662	71.2	21.2	71.2	7.6	0.0	71.9	70.6
Israel	796	85.9	7.0	85.9	6.0	1.0	88.5	83.3
Italy	640	82.1	10.0	82.1	7.7	0.2	86.1	78.1
Japan	684	92.9	2.7	92.9	4.4	0.0	95.4	90.3
Jordan	1122	81.6	8.1	81.6	10.2	0.1	89.4	73.4
Kazakhstan	695	90.7	5.5	90.7	3.7	0.2	91.2	90.3
Korea, Rep. of	765	88.1	6.7	88.1	5.2	0.0	91.3	85.0
Kuwait	661	78.1	12.8	78.1	8.1	1.0	83.5	72.9
Lebanon	551	74.1	6.2	74.1	19.2	0.5	77.7	70.3
Lithuania	609	93.1	3.7	93.1	3.2	0.0	96.3	90.0
Malaysia	1395	66.8	25.1	66.8	7.8	0.3	70.8	62.9
Malta	545	71.6	20.8	71.6	7.3	0.2	76.4	67.1
Morocco	1891	71.0	13.7	71.0	15.0	0.3	73.4	69.0
New Zealand	1146	75.7	16.8	75.7	6.9	0.7	78.6	73.1
Norway	677	86.7	8.1	86.7	4.7	0.5	87.1	86.3
Oman	1262	76.5	15.4	76.5	7.7	0.4	84.1	69.8
Qatar	772	73.0	13.1	73.0	13.7	0.2	78.9	66.9
Russian Federation	676	88.1	4.9	88.1	6.7	0.3	86.6	89.6
Saudi Arabia	542	63.0	25.1	63.0	11.3	0.6	66.5	59.5
Singapore	871	90.0	7.4	90.0	2.3	0.2	93.1	86.6
Slovenia	602	95.4	3.1	95.4	1.5	0.0	95.3	95.5
South Africa	1798	58.7	21.2	58.7	19.7	0.4	61.4	55.6
Sweden	584	78.1	11.9	78.1	9.7	0.3	75.7	80.1
Thailand	917	65.3	16.0	65.3	18.3	0.4	71.0	58.8
Turkey	864	82.5	12.0	82.5	5.5	0.0	88.5	76.1
United Arab Emirates	2567	78.5	13.1	78.5	8.4	0.1	83.8	72.8
United States	1457	81.9	13.8	81.9	4.1	0.3	83.8	80.0
International Avg (n=39)	36102	77.4	13.3	77.4	9.1	0.3	80.5	74.3
Buenos Aires, Argentina	441	47.2	12.7	47.2	36.8	3.3	47.4	47.0
Ontario, Canada	643	52.5	39.9	52.5	7.0	0.6	53.3	51.8
Quebec, Canada	556	88.6	6.8	88.6	4.7	0.0	88.5	88.6
Norway (8)	672	77.0	13.7	77.0	9.3	0.0	77.9	76.1
Abu Dhabi, UAE	690	71.7	14.4	71.7	13.7	0.1	80.0	63.2
Dubai, UAE	883	88.9	8.7	88.9	2.4	0.0	90.8	86.7
Florida, US	301	78.2	15.5	78.2	5.1	1.2	79.9	76.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_05D (S052015D): Chemistry / Applying Type: MC Key: B
Label: Symbols represent elements: NH3

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	69.2	22.3	69.2	8.3	0.1	69.6	68.9
Bahrain	693	72.4	17.4	72.4	9.5	0.6	75.4	69.7
Botswana	852	41.5	25.7	41.5	32.2	0.6	44.3	38.8
Canada	1243	58.8	34.3	58.8	6.6	0.4	60.1	57.3
Chile	702	69.1	18.1	69.1	12.7	0.1	72.3	66.4
Chinese Taipei	819	87.3	11.0	87.3	1.6	0.2	90.0	84.8
Egypt	1142	59.2	16.1	59.2	24.4	0.3	61.7	56.4
England	694	77.1	14.8	77.1	7.7	0.4	77.3	76.9
Georgia	575	77.9	6.5	77.9	15.3	0.4	88.8	69.3
Hong Kong SAR	583	72.5	24.0	72.5	3.3	0.2	74.9	70.2
Hungary	706	84.8	11.3	84.8	3.9	0.0	83.8	85.9
Iran, Islamic Rep. of	863	58.8	29.9	58.8	11.2	0.1	59.7	58.0
Ireland	662	70.3	20.9	70.3	8.8	0.0	72.1	68.6
Israel	796	82.4	10.5	82.4	6.1	1.0	84.8	79.8
Italy	640	77.4	15.9	77.4	6.6	0.2	76.9	77.9
Japan	684	85.1	10.4	85.1	4.5	0.0	87.6	82.4
Jordan	1122	78.0	10.5	78.0	11.4	0.1	85.0	70.7
Kazakhstan	695	88.2	6.3	88.2	5.4	0.2	89.6	87.0
Korea, Rep. of	765	77.7	15.9	77.7	6.4	0.0	80.1	75.5
Kuwait	660	72.6	18.6	72.6	7.9	1.0	78.6	66.6
Lebanon	551	69.4	10.7	69.4	19.4	0.5	73.1	65.5
Lithuania	609	91.3	5.0	91.3	3.7	0.0	94.8	87.8
Malaysia	1395	62.6	28.4	62.6	8.7	0.3	64.9	60.3
Malta	545	69.5	22.4	69.5	7.9	0.2	71.8	67.4
Morocco	1891	68.3	15.0	68.3	16.4	0.3	69.1	67.7
New Zealand	1146	74.1	17.3	74.1	8.0	0.7	78.6	70.0
Norway	677	82.2	12.7	82.2	4.6	0.5	83.3	81.1
Oman	1261	70.6	19.2	70.6	9.8	0.4	77.4	64.6
Qatar	772	71.6	14.1	71.6	14.1	0.2	78.4	64.6
Russian Federation	676	87.2	5.6	87.2	6.9	0.3	86.1	88.2
Saudi Arabia	541	58.8	27.8	58.8	12.9	0.6	63.8	53.7
Singapore	871	85.9	11.6	85.9	2.2	0.2	87.1	84.6
Slovenia	602	93.1	5.3	93.1	1.6	0.0	93.7	92.6
South Africa	1798	58.6	19.7	58.6	21.3	0.4	60.3	56.7
Sweden	584	78.5	12.4	78.5	8.9	0.3	79.0	78.0
Thailand	919	59.6	21.0	59.6	19.0	0.4	65.3	52.8
Turkey	864	77.5	16.1	77.5	6.4	0.0	84.0	70.5
United Arab Emirates	2567	74.0	16.5	74.0	9.4	0.1	78.2	69.6
United States	1457	81.1	14.6	81.1	4.0	0.3	82.4	79.8
International Avg (n=39)	36101	73.7	16.3	73.7	9.7	0.3	76.5	70.9
Buenos Aires, Argentina	441	44.4	13.7	44.4	38.7	3.3	43.8	44.9
Ontario, Canada	644	49.0	43.2	49.0	7.2	0.6	49.0	49.0
Quebec, Canada	556	84.4	11.4	84.4	4.2	0.0	86.1	82.3
Norway (8)	672	72.9	17.4	72.9	9.7	0.0	75.1	70.8
Abu Dhabi, UAE	690	67.1	17.4	67.1	15.4	0.1	76.4	57.4
Dubai, UAE	883	84.6	12.7	84.6	2.8	0.0	86.4	82.5
Florida, US	301	77.4	15.9	77.4	5.4	1.2	81.5	72.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_05E (S052015E): Chemistry / Applying Type: MC Key: B
Label: Symbols represent elements: CH4

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	70.4	20.5	70.4	8.9	0.1	71.0	69.8
Bahrain	693	71.7	17.5	71.7	10.2	0.6	77.3	66.5
Botswana	852	44.0	22.5	44.0	32.9	0.6	48.4	39.6
Canada	1244	62.7	30.5	62.7	6.4	0.4	64.3	61.1
Chile	702	69.7	17.6	69.7	12.6	0.1	72.6	67.4
Chinese Taipei	819	88.4	9.6	88.4	1.9	0.2	91.8	85.2
Egypt	1142	56.9	17.0	56.9	25.9	0.3	57.3	56.3
England	694	77.8	13.3	77.8	8.5	0.4	77.5	78.2
Georgia	575	78.2	5.9	78.2	15.6	0.4	86.7	71.4
Hong Kong SAR	583	73.9	22.3	73.9	3.6	0.2	75.5	72.3
Hungary	706	86.2	9.3	86.2	4.4	0.0	86.6	85.8
Iran, Islamic Rep. of	863	60.7	28.9	60.7	10.4	0.1	58.3	62.8
Ireland	662	70.8	20.6	70.8	8.7	0.0	72.8	68.8
Israel	796	80.4	12.3	80.4	6.3	1.0	83.6	77.2
Italy	640	79.6	14.1	79.6	6.2	0.2	79.1	80.0
Japan	684	90.4	4.9	90.4	4.6	0.0	93.1	87.6
Jordan	1122	76.1	12.9	76.1	10.9	0.1	83.4	68.6
Kazakhstan	695	87.9	6.4	87.9	5.5	0.2	88.8	87.2
Korea, Rep. of	765	83.9	10.0	83.9	6.1	0.0	87.6	80.4
Kuwait	660	75.3	14.8	75.3	8.9	1.0	80.4	70.1
Lebanon	551	66.3	13.1	66.3	20.1	0.5	73.2	59.0
Lithuania	609	90.7	6.3	90.7	3.1	0.0	94.7	86.7
Malaysia	1395	66.1	24.7	66.1	8.8	0.3	69.2	63.1
Malta	545	72.1	19.8	72.1	7.9	0.2	71.2	72.9
Morocco	1891	68.3	15.9	68.3	15.5	0.3	70.4	66.6
New Zealand	1146	73.4	18.2	73.4	7.8	0.7	78.7	68.5
Norway	677	80.6	13.9	80.6	5.0	0.5	81.0	80.1
Oman	1262	71.8	17.7	71.8	10.2	0.4	77.9	66.4
Qatar	772	68.1	17.6	68.1	14.2	0.2	73.0	63.1
Russian Federation	676	86.3	6.5	86.3	6.8	0.3	85.0	87.6
Saudi Arabia	542	58.2	28.9	58.2	12.3	0.6	61.6	54.8
Singapore	871	89.0	8.6	89.0	2.2	0.2	91.6	86.1
Slovenia	602	94.1	4.4	94.1	1.4	0.0	94.8	93.5
South Africa	1798	58.3	19.6	58.3	21.7	0.4	61.4	54.6
Sweden	584	74.6	14.1	74.6	11.0	0.3	73.3	75.7
Thailand	918	59.3	21.5	59.3	18.9	0.4	64.7	52.9
Turkey	864	79.0	14.5	79.0	6.6	0.0	86.0	71.4
United Arab Emirates	2567	74.4	15.5	74.4	10.0	0.1	79.5	69.0
United States	1457	81.4	14.2	81.4	4.2	0.3	81.6	81.2
International Avg (n=39)	36103	74.3	15.5	74.3	9.9	0.3	77.1	71.5
Buenos Aires, Argentina	441	44.8	13.4	44.8	38.5	3.3	47.7	42.1
Ontario, Canada	645	53.3	39.3	53.3	6.9	0.6	54.1	52.4
Quebec, Canada	556	85.3	10.4	85.3	4.3	0.0	85.2	85.4
Norway (8)	672	76.0	14.5	76.0	9.5	0.0	79.2	73.2
Abu Dhabi, UAE	690	68.0	16.7	68.0	15.2	0.1	75.6	60.1
Dubai, UAE	883	85.5	10.2	85.5	4.3	0.0	87.5	83.4
Florida, US	301	77.2	16.1	77.2	5.4	1.2	78.7	75.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_05F (S052015F): Chemistry / Applying Type: MC Key: A
Label: Symbols represent elements: Mg

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	70.5	70.5	20.4	8.9	0.1	71.9	69.1
Bahrain	693	64.9	64.9	24.9	9.6	0.6	68.2	61.9
Botswana	852	51.3	51.3	19.3	28.8	0.6	57.8	44.7
Canada	1243	60.7	60.7	31.8	7.2	0.4	61.1	60.2
Chile	702	67.2	67.2	19.8	12.9	0.1	70.9	64.2
Chinese Taipei	819	90.3	90.3	7.6	2.0	0.2	92.9	87.9
Egypt	1142	62.0	62.0	14.2	23.4	0.3	63.5	60.4
England	694	78.3	78.3	13.6	7.7	0.4	78.7	77.9
Georgia	575	76.5	76.5	7.2	16.0	0.4	88.0	67.4
Hong Kong SAR	583	70.7	70.7	25.5	3.7	0.2	69.0	72.4
Hungary	706	87.6	87.6	8.9	3.5	0.0	89.0	86.3
Iran, Islamic Rep. of	863	50.6	50.6	38.7	10.6	0.1	49.0	52.2
Ireland	662	72.9	72.9	18.9	8.2	0.0	75.0	70.9
Israel	796	78.4	78.4	14.2	6.3	1.0	82.2	74.6
Italy	640	74.8	74.8	16.5	8.6	0.2	75.3	74.2
Japan	684	88.8	88.8	6.7	4.5	0.0	92.3	85.1
Jordan	1122	76.8	76.8	12.3	10.8	0.1	83.6	69.8
Kazakhstan	695	87.8	87.8	7.0	5.0	0.2	88.3	87.4
Korea, Rep. of	765	82.6	82.6	10.6	6.8	0.0	86.8	78.5
Kuwait	660	69.2	69.2	21.0	8.8	1.0	72.2	66.1
Lebanon	551	70.1	70.1	9.1	20.3	0.5	76.8	63.0
Lithuania	609	91.9	91.9	5.4	2.7	0.0	94.3	89.5
Malaysia	1395	55.3	55.3	35.4	9.0	0.3	54.9	55.6
Malta	545	71.0	71.0	21.4	7.4	0.2	74.1	68.0
Morocco	1891	55.7	55.7	27.5	16.5	0.3	55.7	55.8
New Zealand	1146	74.4	74.4	17.1	7.8	0.7	81.2	68.2
Norway	677	80.7	80.7	12.6	6.1	0.5	82.3	79.0
Oman	1262	65.8	65.8	23.6	10.2	0.4	74.2	58.3
Qatar	772	65.1	65.1	20.5	14.2	0.2	71.3	58.7
Russian Federation	676	89.4	89.4	3.7	6.6	0.3	87.3	91.4
Saudi Arabia	543	53.4	53.4	33.7	12.3	0.6	56.1	50.7
Singapore	871	87.9	87.9	9.6	2.3	0.2	88.9	86.8
Slovenia	602	95.7	95.7	2.8	1.4	0.0	95.1	96.2
South Africa	1798	61.9	61.9	17.5	20.2	0.4	65.2	58.1
Sweden	584	73.6	73.6	15.1	11.0	0.3	74.2	73.2
Thailand	919	59.2	59.2	23.0	17.4	0.4	64.1	53.5
Turkey	864	82.1	82.1	11.7	6.2	0.0	88.5	75.3
United Arab Emirates	2567	74.0	74.0	17.0	8.9	0.1	79.1	68.6
United States	1457	79.8	79.8	16.1	3.8	0.3	80.9	78.6
International Avg (n=39)	36104	73.1	73.1	17.0	9.7	0.3	75.9	70.3
Buenos Aires, Argentina	442	42.5	42.5	16.0	38.2	3.3	42.5	42.6
Ontario, Canada	644	50.8	50.8	41.6	7.0	0.6	50.7	50.9
Quebec, Canada	555	81.9	81.9	13.3	4.9	0.0	81.6	82.3
Norway (8)	672	70.2	70.2	19.2	10.6	0.0	70.0	70.3
Abu Dhabi, UAE	690	69.6	69.6	15.9	14.3	0.1	76.7	62.2
Dubai, UAE	883	82.8	82.8	14.4	2.8	0.0	87.8	77.3
Florida, US	301	73.2	73.2	20.4	5.2	1.2	75.1	71.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_05Z (S052015Z): Chemistry / Applying Type: CR 1 Point
Label: Symbols represent elements (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	51.9	41.9	51.9	6.1	0.1	51.6	52.2
Bahrain	693	49.7	42.7	49.7	7.0	0.6	54.7	45.1
Botswana	852	22.3	56.1	22.3	21.0	0.6	25.0	19.6
Canada	1233	45.6	48.5	45.6	5.6	0.4	47.5	43.6
Chile	702	51.8	37.4	51.8	10.8	0.1	55.6	48.5
Chinese Taipei	819	75.2	23.5	75.2	1.2	0.2	79.1	71.6
Egypt	1142	39.3	43.8	39.3	16.7	0.3	40.5	37.9
England	694	65.1	27.7	65.1	6.8	0.4	65.5	64.7
Georgia	575	67.2	20.7	67.2	11.8	0.4	78.6	58.0
Hong Kong SAR	583	51.8	46.0	51.8	2.1	0.2	50.3	53.3
Hungary	706	69.8	27.5	69.8	2.7	0.0	70.8	68.8
Iran, Islamic Rep. of	863	24.7	69.3	24.7	6.0	0.1	24.8	24.6
Ireland	662	56.8	36.9	56.8	6.3	0.0	63.1	50.8
Israel	796	67.8	25.5	67.8	5.7	1.0	71.3	64.1
Italy	640	61.3	34.0	61.3	4.5	0.2	62.4	60.2
Japan	684	75.4	21.1	75.4	3.5	0.0	78.7	71.8
Jordan	1122	61.9	30.6	61.9	7.4	0.1	70.0	53.5
Kazakhstan	695	76.7	21.0	76.7	2.1	0.2	78.8	74.8
Korea, Rep. of	765	68.5	29.4	68.5	2.1	0.0	71.1	66.1
Kuwait	660	49.9	43.8	49.9	5.3	1.0	52.4	47.5
Lebanon	547	56.7	24.3	56.7	18.5	0.5	64.7	48.3
Lithuania	609	84.7	12.6	84.7	2.7	0.0	88.6	80.9
Malaysia	1395	33.9	60.9	33.9	4.9	0.3	36.4	31.4
Malta	545	51.6	41.2	51.6	7.0	0.2	54.2	49.0
Morocco	1891	38.9	48.3	38.9	12.6	0.3	40.0	37.9
New Zealand	1146	59.3	34.4	59.3	5.7	0.7	65.2	53.8
Norway	677	68.0	27.8	68.0	3.6	0.5	69.1	67.0
Oman	1261	49.1	45.6	49.1	4.9	0.4	55.4	43.5
Qatar	772	50.9	36.3	50.9	12.7	0.2	57.4	44.2
Russian Federation	676	79.8	14.2	79.8	5.7	0.3	78.0	81.7
Saudi Arabia	536	28.2	64.3	28.2	6.9	0.6	34.3	22.2
Singapore	871	76.9	21.4	76.9	1.5	0.2	80.1	73.4
Slovenia	602	88.3	10.3	88.3	1.4	0.0	88.6	88.0
South Africa	1798	40.8	42.0	40.8	16.8	0.4	44.7	36.2
Sweden	584	59.1	33.5	59.1	7.1	0.3	56.5	61.3
Thailand	911	39.7	43.4	39.7	16.5	0.4	45.1	33.5
Turkey	864	65.5	30.7	65.5	3.8	0.0	75.0	55.2
United Arab Emirates	2567	57.0	37.5	57.0	5.4	0.1	63.2	50.4
United States	1457	68.5	28.4	68.5	2.9	0.3	70.0	66.9
International Avg (n=39)	36074	57.2	35.5	57.2	7.1	0.3	60.5	53.9
Buenos Aires, Argentina	441	29.4	32.2	29.4	35.1	3.3	30.6	28.4
Ontario, Canada	638	32.1	61.6	32.1	5.7	0.6	32.7	31.5
Quebec, Canada	554	76.2	19.6	76.2	4.2	0.0	76.7	75.6
Norway (8)	672	52.1	40.1	52.1	7.8	0.0	52.3	51.7
Abu Dhabi, UAE	690	51.5	39.5	51.5	8.9	0.1	59.5	43.2
Dubai, UAE	883	70.2	28.4	70.2	1.5	0.0	74.2	65.6
Florida, US	301	61.7	33.4	61.7	3.6	1.2	63.6	59.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S11_06 (S052051): Chemistry / Reasoning Type: CR 1 Point
Label: Is element metal or nonmetal

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	30.6	67.8	30.6	1.5	0.1	30.8	30.3
Bahrain	693	28.3	67.7	28.3	3.4	0.6	32.1	24.8
Botswana	852	7.2	89.1	7.2	2.6	1.1	8.8	5.6
Canada	1249	24.8	71.4	24.8	3.0	0.7	23.6	26.2
Chile	702	12.5	82.7	12.5	4.5	0.3	10.7	13.9
Chinese Taipei	819	36.5	63.1	36.5	0.3	0.2	38.5	34.6
Egypt	1142	14.5	80.8	14.5	4.4	0.3	16.4	12.3
England	694	40.0	57.6	40.0	1.9	0.6	38.3	41.7
Georgia	575	16.8	77.7	16.8	5.1	0.4	17.2	16.4
Hong Kong SAR	583	29.2	70.2	29.2	0.4	0.2	24.8	33.6
Hungary	706	51.0	48.7	51.0	0.4	0.0	51.5	50.4
Iran, Islamic Rep. of	863	33.9	63.2	33.9	2.4	0.6	37.9	30.2
Ireland	662	28.3	69.9	28.3	1.8	0.0	31.1	25.7
Israel	796	51.5	44.6	51.5	2.6	1.3	54.5	48.4
Italy	640	25.1	73.1	25.1	1.6	0.2	23.8	26.4
Japan	684	52.5	47.2	52.5	0.3	0.0	52.9	52.1
Jordan	1122	24.3	73.7	24.3	1.8	0.1	30.5	17.9
Kazakhstan	695	47.7	30.9	47.7	21.2	0.2	52.2	43.7
Korea, Rep. of	765	27.6	71.0	27.6	1.4	0.0	27.5	27.8
Kuwait	665	17.0	79.1	17.0	2.9	1.0	20.9	13.3
Lebanon	551	19.0	74.2	19.0	6.2	0.5	22.3	15.6
Lithuania	609	48.7	50.7	48.7	0.6	0.0	46.7	50.6
Malaysia	1395	20.0	75.7	20.0	3.6	0.6	21.2	18.8
Malta	546	26.2	72.1	26.2	1.5	0.2	25.8	26.7
Morocco	1891	14.7	78.1	14.7	6.7	0.5	15.0	14.4
New Zealand	1146	24.3	72.9	24.3	2.2	0.7	21.9	26.4
Norway	677	38.8	59.9	38.8	0.7	0.5	36.8	40.9
Oman	1260	20.5	76.8	20.5	2.3	0.4	25.1	16.4
Qatar	772	29.3	67.0	29.3	3.4	0.3	34.8	23.6
Russian Federation	676	42.4	55.2	42.4	2.0	0.4	37.5	47.1
Saudi Arabia	544	13.8	83.9	13.8	1.8	0.6	20.1	7.5
Singapore	871	53.5	46.0	53.5	0.2	0.2	54.6	52.3
Slovenia	602	54.5	44.9	54.5	0.6	0.0	52.6	56.1
South Africa	1798	5.0	89.9	5.0	4.5	0.5	5.9	4.0
Sweden	584	41.6	55.6	41.6	2.2	0.6	37.9	44.9
Thailand	922	21.2	74.0	21.2	4.4	0.4	24.6	17.2
Turkey	864	42.8	56.0	42.8	1.2	0.0	51.6	33.4
United Arab Emirates	2565	36.2	62.1	36.2	1.7	0.1	42.4	29.6
United States	1457	38.5	59.8	38.5	1.2	0.5	38.6	38.4
International Avg (n=39)	36116	30.5	66.3	30.5	2.8	0.4	31.8	29.2
Buenos Aires, Argentina	460	5.6	76.9	5.6	13.8	3.7	7.0	4.3
Ontario, Canada	647	26.0	70.5	26.0	2.6	0.9	26.3	25.7
Quebec, Canada	558	20.0	75.5	20.0	3.8	0.7	15.3	26.0
Norway (8)	672	29.3	67.7	29.3	2.9	0.1	28.6	30.0
Abu Dhabi, UAE	689	30.9	66.6	30.9	2.4	0.1	39.4	22.1
Dubai, UAE	883	47.4	52.3	47.4	0.3	0.0	51.0	43.3
Florida, US	301	27.6	69.3	27.6	1.9	1.2	25.9	29.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S11_07 (S052026): Chemistry / Knowing Type: MC Key: D
Label: Example of chemical change

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	57.5	2.4	1.8	36.6	57.5	1.3	0.3	57.0	58.1
Bahrain	693	76.5	7.0	3.8	11.2	76.5	0.9	0.6	78.4	74.8
Botswana	852	51.8	10.0	6.3	29.3	51.8	1.5	1.2	56.2	47.4
Canada	1236	60.8	3.0	2.0	32.0	60.8	1.1	1.1	61.9	59.7
Chile	702	56.8	5.7	1.6	34.0	56.8	1.6	0.3	61.0	53.2
Chinese Taipei	819	81.3	0.7	0.5	17.3	81.3	0.1	0.2	83.4	79.4
Egypt	1142	61.2	11.8	11.2	14.2	61.2	1.0	0.4	65.1	56.8
England	694	49.7	3.3	1.5	44.2	49.7	0.7	0.6	51.9	47.3
Georgia	575	73.5	4.4	2.3	18.8	73.5	0.6	0.4	80.1	68.1
Hong Kong SAR	583	51.2	3.2	1.7	43.7	51.2	0.0	0.2	52.9	49.5
Hungary	706	74.7	1.8	0.2	19.8	74.7	3.5	0.0	77.4	71.8
Iran, Islamic Rep. of	863	89.9	2.2	1.5	5.4	89.9	0.4	0.6	88.4	91.2
Ireland	662	50.1	5.3	2.1	40.5	50.1	1.9	0.0	53.4	47.1
Israel	796	62.7	5.3	3.5	25.5	62.7	1.6	1.4	64.0	61.4
Italy	640	49.8	9.0	2.6	36.6	49.8	1.8	0.2	50.2	49.4
Japan	684	80.7	2.7	0.4	15.9	80.7	0.2	0.0	79.8	81.6
Jordan	1122	74.3	7.6	3.9	12.9	74.3	1.1	0.1	79.5	68.9
Kazakhstan	695	76.3	7.7	0.9	14.3	76.3	0.7	0.2	77.4	75.3
Korea, Rep. of	765	52.7	3.6	3.1	40.3	52.7	0.3	0.0	58.4	47.2
Kuwait	665	74.7	6.6	6.1	9.9	74.7	1.7	1.0	80.8	68.9
Lebanon	535	66.5	9.7	6.0	12.5	66.5	4.3	1.0	72.7	60.0
Lithuania	609	48.0	10.9	1.2	38.1	48.0	1.8	0.0	48.2	47.8
Malaysia	1395	63.6	5.5	5.8	24.1	63.6	0.3	0.6	67.6	59.6
Malta	546	52.2	7.7	2.6	35.9	52.2	1.5	0.2	54.7	49.7
Morocco	1890	53.0	13.0	6.4	24.9	53.0	2.0	0.7	56.2	50.3
New Zealand	1146	54.2	3.5	1.7	36.6	54.2	3.2	0.7	55.2	53.4
Norway	677	45.3	7.0	0.7	42.5	45.3	4.0	0.5	43.7	46.9
Oman	1261	63.0	9.7	6.2	20.2	63.0	0.6	0.4	69.2	57.5
Qatar	772	61.7	8.2	5.6	22.3	61.7	1.8	0.4	61.8	61.6
Russian Federation	676	73.8	1.6	0.6	22.1	73.8	1.6	0.4	78.0	69.6
Saudi Arabia	544	68.5	10.9	7.2	11.4	68.5	1.4	0.6	74.4	62.7
Singapore	871	75.6	1.8	1.7	20.7	75.6	0.0	0.2	75.4	75.8
Slovenia	602	71.7	2.0	1.8	21.2	71.7	3.3	0.0	73.1	70.5
South Africa	1798	43.4	19.2	7.8	27.5	43.4	1.3	0.7	49.2	36.6
Sweden	584	64.7	3.8	0.8	25.7	64.7	4.5	0.6	63.9	65.3
Thailand	922	64.4	3.2	2.3	28.5	64.4	1.2	0.4	68.5	59.6
Turkey	864	70.1	5.9	4.6	19.3	70.1	0.0	0.0	75.0	64.9
United Arab Emirates	2567	73.5	5.8	4.1	14.9	73.5	1.6	0.1	77.7	69.1
United States	1457	72.6	2.3	1.4	22.2	72.6	0.9	0.7	74.9	70.2
International Avg (n=39)	36089	63.9	6.0	3.2	25.0	63.9	1.5	0.4	66.6	61.2
Buenos Aires, Argentina	460	40.3	16.8	2.5	27.9	40.3	8.9	3.7	44.7	36.2
Ontario, Canada	643	53.7	4.3	1.8	38.1	53.7	1.2	0.9	53.9	53.4
Quebec, Canada	550	75.8	0.5	2.1	19.3	75.8	0.6	1.7	78.9	71.8
Norway (8)	672	43.0	7.6	2.8	40.7	43.0	5.5	0.5	39.4	46.3
Abu Dhabi, UAE	690	67.7	8.5	5.9	16.0	67.7	1.7	0.1	74.5	60.6
Dubai, UAE	883	80.3	2.9	1.1	14.3	80.3	1.3	0.0	81.5	78.9
Florida, US	301	79.7	4.0	2.0	12.0	79.7	1.2	1.2	80.8	78.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_08 (S052130): Physics / Knowing Type: MC Key: D
Label: Gas inside ping-pong ball

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	33.8	21.6	18.7	24.4	33.8	1.2	0.3	32.3	35.3
Bahrain	693	32.6	17.9	19.0	29.3	32.6	0.7	0.6	36.6	28.9
Botswana	852	28.5	20.3	23.2	25.4	28.5	1.3	1.3	28.5	28.5
Canada	1243	39.5	16.2	18.4	22.8	39.5	1.4	1.6	40.8	38.1
Chile	702	22.2	18.3	15.5	41.7	22.2	2.0	0.3	25.9	19.0
Chinese Taipei	819	59.6	10.7	18.7	10.8	59.6	0.1	0.2	60.8	58.4
Egypt	1142	41.9	20.0	20.4	15.7	41.9	1.6	0.4	48.2	34.7
England	694	41.6	16.1	16.3	24.3	41.6	1.2	0.6	48.4	34.4
Georgia	575	22.8	23.9	22.3	27.7	22.8	2.9	0.4	21.2	24.1
Hong Kong SAR	583	64.4	12.3	13.8	9.1	64.4	0.3	0.2	63.9	64.8
Hungary	706	53.0	14.9	21.8	9.2	53.0	0.8	0.3	52.8	53.2
Iran, Islamic Rep. of	863	20.0	27.4	23.0	27.4	20.0	1.6	0.6	20.6	19.4
Ireland	662	32.6	15.4	20.5	30.0	32.6	1.3	0.1	37.2	28.3
Israel	796	60.1	11.3	12.3	13.6	60.1	1.1	1.6	65.0	55.1
Italy	640	38.9	17.5	17.9	24.1	38.9	1.5	0.2	42.7	35.1
Japan	684	67.0	14.9	8.7	8.8	67.0	0.6	0.0	69.2	64.6
Jordan	1122	32.6	22.5	19.6	22.8	32.6	2.3	0.1	33.5	31.7
Kazakhstan	695	31.6	18.2	18.3	29.5	31.6	2.3	0.2	31.2	31.9
Korea, Rep. of	765	54.4	14.1	18.4	12.7	54.4	0.5	0.0	57.7	51.2
Kuwait	660	29.6	21.4	19.7	26.0	29.6	2.2	1.1	33.5	26.0
Lebanon	544	32.7	18.3	17.2	25.6	32.7	5.1	1.1	34.9	30.3
Lithuania	609	50.9	13.0	17.1	17.4	50.9	1.6	0.0	51.7	50.2
Malaysia	1395	46.3	13.1	17.9	20.7	46.3	1.3	0.8	52.9	39.9
Malta	546	27.3	18.3	26.0	27.2	27.3	1.0	0.2	28.0	26.6
Morocco	1889	30.0	22.2	14.4	29.6	30.0	3.0	0.7	29.5	30.5
New Zealand	1146	30.3	21.5	18.2	27.1	30.3	2.1	0.8	29.9	30.7
Norway	677	28.1	12.1	20.2	37.0	28.1	2.0	0.5	27.7	28.6
Oman	1262	29.9	24.3	22.3	21.7	29.9	1.4	0.4	33.0	27.1
Qatar	772	36.3	19.5	22.9	19.1	36.3	1.8	0.4	40.2	32.2
Russian Federation	676	38.7	12.0	16.1	31.1	38.7	1.7	0.4	35.9	41.4
Saudi Arabia	544	29.3	22.3	20.6	26.6	29.3	0.7	0.6	32.4	26.1
Singapore	871	55.9	16.0	18.0	9.6	55.9	0.2	0.2	54.2	57.8
Slovenia	602	56.4	12.7	15.8	13.6	56.4	1.5	0.0	57.4	55.5
South Africa	1798	33.1	17.5	17.2	29.1	33.1	2.4	0.8	34.5	31.4
Sweden	584	28.5	14.1	17.8	35.5	28.5	3.5	0.6	26.2	30.4
Thailand	922	23.0	19.1	16.3	40.2	23.0	1.0	0.4	25.1	20.6
Turkey	864	33.8	17.5	29.8	18.3	33.8	0.6	0.0	34.8	32.7
United Arab Emirates	2567	34.6	17.8	18.9	25.8	34.6	2.8	0.1	36.9	32.2
United States	1457	41.1	15.5	23.1	18.3	41.1	1.3	0.8	41.5	40.6
International Avg (n=39)	36100	38.3	17.5	18.9	23.3	38.3	1.6	0.5	39.9	36.6
Buenos Aires, Argentina	459	17.5	17.5	14.2	36.8	17.5	10.0	4.0	20.5	14.8
Ontario, Canada	646	40.9	17.7	19.3	19.4	40.9	1.2	1.5	42.8	38.9
Quebec, Canada	555	41.1	15.1	13.8	27.3	41.1	1.0	1.7	43.1	38.6
Norway (8)	672	25.4	16.1	22.2	34.6	25.4	1.2	0.5	23.2	27.4
Abu Dhabi, UAE	690	33.7	19.1	19.0	25.1	33.7	3.0	0.1	42.8	24.3
Dubai, UAE	883	38.7	17.4	18.6	24.5	38.7	0.8	0.0	35.1	42.6
Florida, US	301	40.4	16.9	23.2	17.7	40.4	0.6	1.2	41.2	39.5

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_09 (S052028): Physics / Applying Type: MC Key: A
Label: Electromagnet attracting needles

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	62.1	62.1	5.7	22.6	8.5	0.8	0.3	57.2	67.1
Bahrain	693	42.5	42.5	10.6	26.5	18.8	0.8	0.7	37.8	46.9
Botswana	852	57.6	57.6	11.7	15.4	12.5	1.1	1.8	52.2	63.0
Canada	1246	49.9	49.9	8.1	28.3	10.7	1.2	1.8	47.5	52.5
Chile	702	61.1	61.1	3.9	23.4	9.3	1.9	0.3	57.5	64.2
Chinese Taipei	819	76.8	76.8	2.9	12.5	7.6	0.0	0.2	74.4	79.0
Egypt	1142	34.2	34.2	19.8	26.0	18.0	1.3	0.7	32.2	36.5
England	694	60.3	60.3	3.2	24.6	11.2	0.1	0.6	59.3	61.4
Georgia	575	45.5	45.5	11.8	20.9	17.6	3.8	0.4	44.4	46.4
Hong Kong SAR	583	66.4	66.4	2.7	14.3	16.3	0.2	0.2	60.9	72.1
Hungary	706	52.4	52.4	9.6	26.5	10.7	0.5	0.3	47.8	57.1
Iran, Islamic Rep. of	863	61.4	61.4	2.8	20.0	14.0	1.3	0.6	56.7	65.6
Ireland	662	54.1	54.1	9.4	22.8	12.7	0.9	0.1	53.3	54.8
Israel	796	58.6	58.6	6.2	20.4	12.0	1.3	1.6	52.9	64.4
Italy	640	43.4	43.4	7.0	32.2	14.6	2.4	0.5	37.9	48.9
Japan	684	86.3	86.3	2.8	8.4	2.2	0.4	0.0	84.2	88.5
Jordan	1122	44.2	44.2	9.7	25.1	18.6	2.0	0.4	41.8	46.6
Kazakhstan	695	57.4	57.4	11.2	16.9	12.9	1.4	0.2	52.8	61.6
Korea, Rep. of	765	66.9	66.9	5.8	18.6	8.3	0.3	0.0	63.0	70.6
Kuwait	659	38.9	38.9	16.6	23.7	17.7	1.5	1.5	37.1	40.7
Lebanon	542	39.3	39.3	14.6	22.1	15.0	7.0	1.9	34.0	45.2
Lithuania	609	52.0	52.0	5.4	23.9	17.3	1.4	0.0	51.3	52.6
Malaysia	1395	72.7	72.7	4.2	10.1	11.3	0.6	1.0	70.3	75.1
Malta	546	51.4	51.4	11.8	23.8	11.0	1.7	0.2	49.2	53.5
Morocco	1889	39.9	39.9	13.2	25.7	17.1	3.2	0.8	34.1	44.8
New Zealand	1146	51.0	51.0	6.3	28.1	10.9	2.9	0.8	45.7	55.8
Norway	677	58.8	58.8	7.1	19.6	11.4	2.5	0.6	59.4	58.1
Oman	1262	47.5	47.5	9.1	23.4	18.3	1.3	0.4	49.2	46.0
Qatar	772	49.1	49.1	11.0	23.4	13.7	2.5	0.4	47.3	50.8
Russian Federation	676	56.2	56.2	3.7	23.6	13.8	2.3	0.4	51.9	60.3
Saudi Arabia	541	37.0	37.0	17.4	28.0	15.8	1.2	0.6	39.8	34.2
Singapore	871	90.2	90.2	1.9	3.6	3.9	0.2	0.2	89.0	91.4
Slovenia	602	63.8	63.8	2.7	18.6	13.3	1.6	0.0	59.2	67.7
South Africa	1798	51.0	51.0	16.0	18.1	12.1	1.6	1.2	47.0	55.5
Sweden	584	55.8	55.8	4.6	20.3	14.9	3.2	1.2	51.9	59.3
Thailand	922	45.6	45.6	5.5	24.7	21.7	2.1	0.5	43.1	48.4
Turkey	864	48.6	48.6	5.2	30.1	15.7	0.1	0.2	43.8	53.9
United Arab Emirates	2567	50.1	50.1	11.4	22.1	13.5	2.8	0.1	48.6	51.8
United States	1457	59.8	59.8	6.0	22.8	9.7	0.9	1.0	56.2	63.3
International Avg (n=39)	36097	54.9	54.9	8.2	21.6	13.2	1.6	0.6	51.8	57.8
Buenos Aires, Argentina	452	30.1	30.1	9.1	29.1	14.5	12.5	4.7	27.6	32.5
Ontario, Canada	647	49.4	49.4	8.1	27.5	11.9	1.1	1.9	45.9	53.0
Quebec, Canada	555	49.3	49.3	8.5	30.2	9.0	1.2	1.7	47.3	51.7
Norway (8)	672	44.6	44.6	12.2	23.9	17.1	1.7	0.5	37.1	51.5
Abu Dhabi, UAE	690	51.4	51.4	12.3	21.5	12.0	2.7	0.1	52.7	50.0
Dubai, UAE	883	55.4	55.4	7.6	22.6	12.7	1.7	0.0	51.5	59.8
Florida, US	301	55.4	55.4	7.3	23.1	11.2	1.8	1.2	56.0	54.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_10 (S052189): Chemistry / Reasoning Type: CR 1 Point
Label: Paint chip in test tubes

COUNTRY	N	10 %	11 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	2.0	40.8	55.1	42.8	1.8	0.3	46.4	39.0
Bahrain	693	11.7	27.1	56.6	38.9	3.8	0.7	48.5	30.0
Botswana	854	4.3	16.0	75.6	20.3	2.1	2.0	22.6	18.1
Canada	1249	13.2	38.2	43.5	51.5	3.1	1.9	54.8	47.9
Chile	702	12.1	16.0	67.8	28.1	3.7	0.5	27.5	28.6
Chinese Taipei	819	3.1	49.0	47.3	52.1	0.5	0.2	59.6	45.2
Egypt	1142	4.7	7.0	84.9	11.7	2.7	0.7	12.8	10.5
England	694	7.8	47.8	42.1	55.5	1.8	0.6	61.0	49.8
Georgia	575	4.3	23.7	65.2	28.0	6.1	0.7	31.8	24.9
Hong Kong SAR	583	6.7	49.4	43.4	56.1	0.4	0.2	59.9	52.2
Hungary	706	7.9	51.6	39.5	59.5	0.7	0.3	59.6	59.4
Iran, Islamic Rep. of	863	2.3	26.2	67.3	28.6	3.4	0.7	33.2	24.4
Ireland	662	6.0	43.7	49.2	49.7	1.0	0.1	55.5	44.1
Israel	796	11.8	32.5	51.4	44.3	2.7	1.6	48.6	39.8
Italy	639	0.6	46.2	50.1	46.8	2.7	0.5	52.3	41.3
Japan	684	7.7	58.6	33.5	66.3	0.2	0.0	75.4	56.5
Jordan	1122	9.4	2.9	84.9	12.2	2.3	0.6	17.8	6.5
Kazakhstan	695	51.8	0.0	28.7	51.8	19.3	0.2	58.9	45.5
Korea, Rep. of	765	3.5	59.3	35.8	62.8	1.4	0.0	68.7	57.2
Kuwait	664	8.4	10.4	77.1	18.8	2.3	1.7	25.4	12.4
Lebanon	551	2.0	15.0	72.3	17.1	8.7	1.9	15.9	18.3
Lithuania	609	7.0	53.1	38.6	60.1	1.3	0.0	62.8	57.4
Malaysia	1395	12.1	11.5	71.2	23.6	4.2	1.0	23.8	23.3
Malta	546	4.2	39.5	53.9	43.7	2.0	0.4	48.4	39.2
Morocco	1892	8.5	0.7	84.0	9.2	5.7	1.0	9.9	8.6
New Zealand	1146	5.8	44.5	46.6	50.2	2.3	0.8	57.1	43.9
Norway	677	3.5	47.6	47.2	51.0	1.1	0.6	56.6	45.4
Oman	1256	3.1	18.7	75.5	21.8	2.1	0.5	28.2	16.1
Qatar	772	10.4	16.7	70.3	27.1	2.3	0.4	32.9	21.1
Russian Federation	676	6.8	51.1	38.7	57.9	3.1	0.4	55.4	60.3
Saudi Arabia	544	4.8	5.8	86.3	10.6	2.5	0.6	15.9	5.4
Singapore	871	8.8	55.2	35.5	64.0	0.3	0.2	68.7	58.8
Slovenia	602	33.4	17.6	48.6	50.9	0.4	0.0	54.1	48.2
South Africa	1798	3.1	6.3	86.0	9.5	3.1	1.4	12.4	6.1
Sweden	584	9.9	44.2	43.3	54.1	1.4	1.2	55.2	53.1
Thailand	923	2.0	26.2	65.6	28.2	5.5	0.7	31.9	23.8
Turkey	864	7.4	31.5	60.0	38.9	0.9	0.2	45.9	31.4
United Arab Emirates	2567	3.6	32.0	62.0	35.5	2.4	0.1	40.0	30.8
United States	1457	5.9	51.6	40.7	57.5	0.9	1.0	58.6	56.4
International Avg (n=39)	36116	8.2	31.2	57.1	39.4	2.9	0.7	43.4	35.4
Buenos Aires, Argentina	460	2.4	10.1	67.8	12.5	14.5	5.2	13.8	11.4
Ontario, Canada	647	17.5	34.4	42.9	51.9	3.1	2.1	53.3	50.5
Quebec, Canada	558	3.7	47.9	43.3	51.6	3.4	1.7	54.2	48.4
Norway (8)	672	4.2	42.3	50.1	46.5	2.9	0.5	53.3	40.3
Abu Dhabi, UAE	690	4.4	29.6	63.6	34.0	2.3	0.1	39.8	28.0
Dubai, UAE	883	5.7	39.5	52.8	45.2	1.9	0.1	49.4	40.6
Florida, US	301	2.9	50.8	44.3	53.7	0.8	1.2	57.8	49.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S11_11 (S052217): Physics / Applying Type: MC Key: B
Label: Water pressure on fish

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	54.8	5.2	54.8	29.1	8.9	1.7	0.4	49.9	59.8
Bahrain	693	42.6	13.3	42.6	20.3	21.9	1.1	0.7	42.1	43.0
Botswana	854	38.0	12.6	38.0	21.2	22.4	3.5	2.4	39.4	36.6
Canada	1245	53.5	5.0	53.5	26.8	11.0	1.4	2.3	49.1	58.2
Chile	702	45.4	7.8	45.4	28.2	16.2	1.7	0.7	46.4	44.6
Chinese Taipei	819	60.2	4.8	60.2	29.0	5.4	0.4	0.2	58.8	61.5
Egypt	1142	30.0	16.4	30.0	26.3	25.1	1.6	0.7	27.2	33.2
England	694	52.3	7.7	52.3	26.6	11.4	1.5	0.6	52.7	51.9
Georgia	575	38.8	10.1	38.8	20.0	27.0	2.9	1.1	42.9	35.5
Hong Kong SAR	583	49.2	6.5	49.2	38.3	5.5	0.3	0.2	45.0	53.4
Hungary	706	53.7	7.6	53.7	30.0	7.6	0.6	0.6	52.3	55.1
Iran, Islamic Rep. of	862	35.0	11.9	35.0	26.1	23.7	2.4	0.8	32.3	37.5
Ireland	662	50.4	8.0	50.4	26.5	13.6	1.4	0.1	47.0	53.5
Israel	796	51.6	6.0	51.6	23.3	14.9	2.3	1.9	52.1	51.1
Italy	640	40.7	8.1	40.7	35.0	13.8	1.9	0.5	39.5	41.8
Japan	684	64.8	1.8	64.8	30.7	2.6	0.1	0.0	57.4	72.8
Jordan	1122	31.6	14.3	31.6	25.9	25.5	1.9	0.8	30.6	32.6
Kazakhstan	695	56.0	15.5	56.0	13.3	12.9	2.2	0.2	56.6	55.4
Korea, Rep. of	765	44.3	3.7	44.3	46.0	5.3	0.7	0.0	41.1	47.3
Kuwait	661	36.0	14.8	36.0	23.8	21.2	2.3	1.9	35.4	36.9
Lebanon	545	47.3	8.0	47.3	19.6	15.1	8.0	2.0	49.6	44.7
Lithuania	609	56.6	9.5	56.6	21.6	11.5	0.7	0.0	55.6	57.6
Malaysia	1395	39.6	17.8	39.6	23.0	16.8	1.0	1.8	39.0	40.2
Malta	546	54.8	9.5	54.8	20.5	12.2	2.6	0.4	56.7	53.0
Morocco	1891	29.1	15.7	29.1	22.2	28.7	3.2	1.1	28.6	29.5
New Zealand	1146	54.0	7.1	54.0	24.6	11.3	2.2	0.8	53.8	54.2
Norway	677	59.2	3.7	59.2	27.1	8.0	1.1	0.8	55.6	62.9
Oman	1260	36.9	11.7	36.9	24.0	25.4	1.4	0.5	38.1	35.8
Qatar	772	48.0	11.4	48.0	18.4	20.2	1.6	0.4	50.7	45.3
Russian Federation	676	59.6	6.7	59.6	21.4	8.9	2.9	0.4	54.5	64.6
Saudi Arabia	544	29.7	17.2	29.7	24.5	25.6	1.8	1.2	29.4	30.0
Singapore	871	57.7	7.1	57.7	26.2	8.0	0.8	0.2	57.2	58.2
Slovenia	602	54.8	3.4	54.8	32.2	7.6	1.8	0.0	48.2	60.5
South Africa	1798	34.7	25.0	34.7	17.7	19.2	1.7	1.6	35.2	34.1
Sweden	584	54.9	3.7	54.9	31.0	6.8	2.4	1.2	51.1	58.3
Thailand	923	40.8	7.1	40.8	21.9	27.2	2.4	0.7	42.1	39.2
Turkey	864	52.0	6.4	52.0	19.5	21.4	0.4	0.2	55.8	47.9
United Arab Emirates	2567	52.2	9.8	52.2	21.9	14.3	1.4	0.3	54.1	50.2
United States	1457	59.4	6.2	59.4	22.4	9.4	1.4	1.2	63.3	55.5
International Avg (n=39)	36106	47.4	9.4	47.4	25.3	15.2	1.8	0.8	46.6	48.3
Buenos Aires, Argentina	457	34.8	12.2	34.8	20.7	13.0	13.4	5.8	33.5	36.0
Ontario, Canada	646	55.6	4.3	55.6	26.0	9.9	1.8	2.4	53.4	57.9
Quebec, Canada	556	51.3	6.9	51.3	27.5	11.7	0.4	2.2	45.3	58.5
Norway (8)	672	56.7	4.0	56.7	26.8	9.6	1.6	1.1	53.5	59.8
Abu Dhabi, UAE	690	47.3	11.8	47.3	22.2	17.5	1.2	0.1	50.6	43.8
Dubai, UAE	883	59.2	7.1	59.2	20.9	11.5	0.8	0.5	58.0	60.5
Florida, US	301	61.5	6.4	61.5	19.2	9.7	1.9	1.2	62.2	60.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_12 (S052038): Earth Science / Knowing Type: MC Key: C
Label: Energy for water cycle

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	60.0	15.0	10.8	60.0	12.0	1.6	0.6	61.7	58.3
Bahrain	693	51.7	15.4	8.1	51.7	23.6	0.3	0.9	58.7	45.2
Botswana	854	45.6	15.3	16.1	45.6	17.7	1.1	4.2	44.2	46.9
Canada	1246	55.7	13.0	8.8	55.7	18.8	0.9	2.8	54.0	57.6
Chile	702	30.3	15.3	11.1	30.3	39.9	2.6	0.8	23.9	35.6
Chinese Taipei	819	42.1	5.3	2.3	42.1	49.8	0.1	0.3	39.4	44.6
Egypt	1142	40.0	23.0	9.4	40.0	26.2	0.6	0.8	41.7	38.0
England	694	52.8	15.6	9.3	52.8	20.5	1.2	0.6	53.0	52.6
Georgia	575	18.9	43.8	20.0	18.9	14.4	1.8	1.2	14.6	22.3
Hong Kong SAR	583	47.5	6.5	15.1	47.5	30.7	0.0	0.2	40.6	54.4
Hungary	706	46.3	26.5	13.0	46.3	11.7	1.8	0.7	47.1	45.5
Iran, Islamic Rep. of	862	29.5	30.1	15.0	29.5	23.5	0.6	1.4	23.8	34.6
Ireland	662	59.9	16.1	3.9	59.9	18.7	1.2	0.2	63.6	56.4
Israel	796	48.3	21.1	12.0	48.3	14.9	1.4	2.3	47.5	49.0
Italy	640	58.5	15.5	9.3	58.5	14.9	1.2	0.6	57.5	59.5
Japan	684	54.0	11.4	8.3	54.0	25.7	0.7	0.0	55.1	52.7
Jordan	1122	52.4	20.6	7.0	52.4	17.3	1.9	0.8	59.5	45.0
Kazakhstan	695	45.6	17.1	12.9	45.6	22.7	1.3	0.4	46.5	44.9
Korea, Rep. of	765	26.1	38.6	9.5	26.1	25.8	0.0	0.0	25.2	27.0
Kuwait	661	41.5	16.9	11.5	41.5	26.3	1.7	2.1	41.2	41.8
Lebanon	547	38.3	22.2	15.2	38.3	16.5	5.7	2.1	37.4	39.3
Lithuania	609	34.3	27.6	14.3	34.3	21.8	1.9	0.0	32.6	36.0
Malaysia	1395	43.6	11.2	12.7	43.6	29.7	0.4	2.3	41.5	45.7
Malta	546	59.8	14.8	5.7	59.8	17.4	1.5	0.7	59.3	60.2
Morocco	1891	27.3	35.7	13.3	27.3	20.2	2.2	1.3	26.7	27.9
New Zealand	1146	53.3	12.2	13.6	53.3	17.8	1.7	1.4	55.9	50.9
Norway	677	53.0	22.3	14.9	53.0	7.6	1.4	0.8	51.5	54.5
Oman	1262	69.3	13.8	4.4	69.3	11.4	0.4	0.7	79.9	59.8
Qatar	772	46.7	17.3	13.5	46.7	20.9	0.9	0.6	49.3	44.0
Russian Federation	676	50.0	21.0	12.4	50.0	14.4	1.8	0.4	49.7	50.2
Saudi Arabia	544	40.2	20.7	9.6	40.2	26.3	2.0	1.2	45.6	34.7
Singapore	871	71.6	6.7	7.6	71.6	13.7	0.1	0.2	73.0	70.2
Slovenia	602	58.6	13.4	16.3	58.6	8.4	3.3	0.0	56.6	60.2
South Africa	1798	41.3	24.1	12.8	41.3	18.2	1.2	2.4	41.7	40.8
Sweden	584	68.3	9.2	9.5	68.3	8.7	2.6	1.8	65.1	71.1
Thailand	922	38.2	18.2	17.3	38.2	24.1	1.5	0.7	37.0	39.6
Turkey	864	62.7	10.7	9.8	62.7	16.6	0.1	0.2	65.6	59.5
United Arab Emirates	2567	55.9	16.2	6.6	55.9	18.9	2.0	0.4	60.0	51.6
United States	1457	71.3	7.8	6.1	71.3	12.1	1.2	1.5	72.4	70.1
International Avg (n=39)	36110	48.5	18.1	11.0	48.5	20.0	1.4	1.0	48.7	48.2
Buenos Aires, Argentina	456	30.2	19.4	8.4	30.2	25.9	9.3	6.8	31.7	28.9
Ontario, Canada	646	57.6	12.9	8.2	57.6	17.3	0.9	3.0	55.1	60.3
Quebec, Canada	557	46.8	15.3	10.6	46.8	24.3	0.8	2.2	46.9	46.6
Norway (8)	672	42.9	24.4	19.1	42.9	8.9	3.4	1.3	43.9	42.2
Abu Dhabi, UAE	690	53.3	16.5	9.2	53.3	18.9	1.8	0.3	61.4	45.0
Dubai, UAE	883	65.7	12.3	3.3	65.7	16.7	1.3	0.6	62.0	69.9
Florida, US	301	71.8	7.3	6.7	71.8	10.8	1.6	1.7	73.2	70.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S11_13 (S052099): Earth Science / Applying Type: CR 1 Point
Label: Trees protect soil from erosion

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	36.9	45.5	36.9	16.9	0.6	35.6	38.3
Bahrain	693	21.3	57.9	21.3	19.7	1.1	24.3	18.7
Botswana	855	45.0	44.9	45.0	5.6	4.5	48.2	41.9
Canada	1249	37.2	38.6	37.2	21.4	2.9	36.1	38.3
Chile	702	10.7	35.5	10.7	52.8	0.9	8.8	12.4
Chinese Taipei	819	50.1	30.5	50.1	19.1	0.3	54.9	45.7
Egypt	1142	6.5	64.8	6.5	27.8	0.9	7.7	5.2
England	694	36.4	40.6	36.4	22.4	0.6	37.9	34.8
Georgia	575	36.5	22.4	36.5	39.9	1.2	37.0	36.1
Hong Kong SAR	583	39.2	47.0	39.2	13.6	0.2	34.6	43.8
Hungary	706	27.1	34.7	27.1	37.0	1.2	25.4	29.0
Iran, Islamic Rep. of	862	11.4	52.1	11.4	35.0	1.4	10.9	11.9
Ireland	662	41.1	40.8	41.1	18.0	0.2	44.3	38.0
Israel	796	44.3	26.9	44.3	26.5	2.3	43.1	45.4
Italy	640	37.9	31.1	37.9	30.4	0.6	31.3	44.5
Japan	684	50.9	32.5	50.9	16.6	0.0	52.7	49.1
Jordan	1122	18.4	61.7	18.4	18.9	1.0	21.6	14.9
Kazakhstan	695	47.4	32.2	47.4	19.5	0.8	50.7	44.5
Korea, Rep. of	765	26.1	55.8	26.1	18.1	0.0	24.7	27.4
Kuwait	664	23.4	50.2	23.4	24.3	2.1	24.8	21.9
Lebanon	551	23.4	27.5	23.4	46.6	2.5	23.6	23.1
Lithuania	609	17.8	42.5	17.8	39.7	0.1	20.3	15.3
Malaysia	1395	52.4	33.6	52.4	11.6	2.4	51.7	53.0
Malta	546	26.6	40.2	26.6	32.5	0.7	28.6	24.8
Morocco	1893	20.6	49.1	20.6	28.9	1.4	18.7	22.2
New Zealand	1146	29.6	43.0	29.6	26.0	1.4	26.5	32.3
Norway	677	14.5	40.0	14.5	44.6	0.9	13.9	15.1
Oman	1261	19.0	67.1	19.0	13.2	0.7	20.8	17.5
Qatar	772	24.6	50.6	24.6	24.3	0.6	26.0	23.1
Russian Federation	676	36.5	31.2	36.5	31.9	0.4	33.9	39.0
Saudi Arabia	544	6.5	70.7	6.5	21.5	1.2	10.0	3.1
Singapore	871	74.2	22.0	74.2	3.6	0.2	76.4	71.7
Slovenia	602	35.9	30.4	35.9	33.7	0.0	33.7	37.8
South Africa	1798	16.0	68.6	16.0	12.7	2.7	16.7	15.2
Sweden	584	16.2	39.2	16.2	42.6	2.1	15.5	16.7
Thailand	923	44.0	37.1	44.0	18.2	0.7	48.3	38.9
Turkey	864	48.9	40.7	48.9	10.2	0.2	52.9	44.7
United Arab Emirates	2567	32.0	51.9	32.0	15.5	0.5	36.0	27.9
United States	1457	46.5	45.2	46.5	6.6	1.7	47.3	45.7
International Avg (n=39)	36123	31.6	43.0	31.6	24.3	1.1	32.2	31.0
Buenos Aires, Argentina	459	7.9	22.1	7.9	63.0	7.0	9.9	6.0
Ontario, Canada	647	32.3	41.5	32.3	23.2	3.0	30.3	34.5
Quebec, Canada	558	47.6	33.0	47.6	17.1	2.4	47.9	47.2
Norway (8)	672	13.7	41.4	13.7	43.4	1.5	14.2	13.3
Abu Dhabi, UAE	690	24.3	58.0	24.3	17.3	0.3	29.9	18.5
Dubai, UAE	883	44.6	43.0	44.6	11.4	1.0	48.5	40.2
Florida, US	301	46.7	41.7	46.7	9.5	2.1	47.9	45.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S11_14 (S052118): Earth Science / Reasoning Type: CR 1 Point
Label: Claim that moon travels around Sun

COUNTRY	N	10 %	11 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1479	18.7	9.7	12.9	56.3	28.4	1.5	0.9	24.0	32.9
Bahrain	693	17.4	10.5	14.3	55.4	27.9	0.6	1.8	33.0	23.2
Botswana	855	0.7	0.9	2.4	89.1	1.6	1.3	5.5	1.3	2.0
Canada	1249	20.8	9.7	14.6	50.8	30.4	0.9	3.3	29.6	31.3
Chile	702	7.2	5.0	22.9	60.0	12.2	3.1	1.9	11.8	12.6
Chinese Taipei	819	10.5	5.5	11.4	71.8	16.0	0.3	0.4	12.8	18.9
Egypt	1142	9.0	4.3	10.2	74.1	13.3	0.6	1.8	13.6	12.9
England	694	21.8	11.8	14.0	50.3	33.6	1.1	1.0	34.1	33.0
Georgia	575	18.7	2.8	9.1	65.8	21.5	1.3	2.4	21.4	21.5
Hong Kong SAR	583	14.2	10.6	31.3	43.2	24.8	0.5	0.2	24.3	25.3
Hungary	706	10.0	10.1	18.3	59.2	20.1	0.6	1.8	19.0	21.1
Iran, Islamic Rep. of	862	6.4	3.5	6.7	80.2	10.0	0.9	2.3	10.5	9.5
Ireland	662	12.4	5.8	8.5	71.4	18.2	1.3	0.7	13.1	22.9
Israel	796	21.5	9.9	11.7	52.1	31.4	1.2	3.5	32.7	30.1
Italy	639	24.4	5.7	16.1	50.5	30.1	2.5	0.9	27.9	32.2
Japan	684	9.3	1.3	14.3	74.5	10.5	0.2	0.5	9.1	12.0
Jordan	1122	3.2	4.2	4.8	85.5	7.4	0.6	1.6	6.7	8.2
Kazakhstan	695	46.6	0.3	8.5	33.5	46.9	7.9	3.2	46.7	47.0
Korea, Rep. of	765	19.3	3.1	30.1	46.7	22.3	0.6	0.3	20.4	24.2
Kuwait	665	10.6	8.8	6.4	71.2	19.4	0.3	2.7	24.1	14.8
Lebanon	551	11.8	3.2	5.4	73.5	15.0	3.0	3.1	16.6	13.3
Lithuania	609	17.0	6.1	26.3	49.9	23.1	0.4	0.3	21.3	24.8
Malaysia	1395	10.0	12.0	15.9	55.8	22.1	2.0	4.3	22.1	22.0
Malta	546	8.2	12.9	18.8	57.6	21.2	1.5	0.9	20.7	21.6
Morocco	1893	9.8	7.4	10.1	67.3	17.2	2.8	2.6	18.2	16.3
New Zealand	1146	24.2	11.1	15.2	46.8	35.3	1.1	1.5	39.3	31.7
Norway	677	30.7	8.0	13.2	46.9	38.7	0.1	1.2	36.6	40.8
Oman	1261	6.9	7.2	15.4	68.3	14.1	1.0	1.3	15.5	12.8
Qatar	772	12.2	11.6	16.1	58.5	23.7	0.6	1.1	27.8	19.6
Russian Federation	676	25.6	10.3	29.8	32.3	36.0	1.6	0.4	33.8	38.1
Saudi Arabia	544	6.7	3.0	9.1	78.6	9.7	1.3	1.4	8.5	10.8
Singapore	871	9.3	5.4	12.1	72.5	14.7	0.5	0.2	9.7	20.2
Slovenia	602	38.9	3.1	6.5	50.8	42.0	0.4	0.2	44.0	40.3
South Africa	1798	2.9	1.1	2.5	89.1	4.0	0.7	3.7	4.1	3.9
Sweden	584	28.4	10.0	10.9	46.5	38.5	1.3	2.8	36.3	40.4
Thailand	923	4.5	2.2	12.7	75.4	6.7	2.4	2.8	7.1	6.3
Turkey	864	16.6	5.0	9.8	67.7	21.6	0.4	0.5	23.4	19.6
United Arab Emirates	2567	12.0	9.3	17.9	58.9	21.3	0.7	1.2	24.0	18.5
United States	1457	26.2	11.2	18.7	40.8	37.4	1.4	1.7	37.5	37.3
International Avg (n=39)	36123	15.5	6.8	13.7	61.0	22.3	1.3	1.7	22.1	22.4
Buenos Aires, Argentina	460	5.3	4.5	16.4	61.7	9.8	3.4	8.8	8.4	11.1
Ontario, Canada	647	20.3	8.2	11.3	55.2	28.5	1.4	3.5	26.6	30.4
Quebec, Canada	558	19.5	11.5	22.9	43.3	31.0	0.2	2.7	30.7	31.2
Norway (8)	672	29.0	8.4	13.3	46.8	37.5	0.6	1.7	34.2	40.2
Abu Dhabi, UAE	690	9.2	11.3	22.5	54.9	20.6	0.5	1.4	26.8	14.2
Dubai, UAE	883	19.5	10.5	16.2	51.9	30.0	0.5	1.4	28.9	31.1
Florida, US	301	25.8	14.5	22.6	34.1	40.3	0.9	2.1	44.5	35.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_01 (S062279): Biology / Knowing Type: MC Key: A
Label: Healthy and balanced meal

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	73.7	73.7	5.7	5.0	12.5	2.9	0.2	79.6	67.7
Bahrain	697	44.1	44.1	4.3	14.9	36.2	0.5	0.0	60.5	28.3
Botswana	852	53.3	53.3	10.2	14.6	21.3	0.6	0.0	57.2	49.2
Canada	1239	80.6	80.6	5.3	7.5	6.5	0.1	0.0	83.5	77.7
Chile	696	37.4	37.4	2.0	31.8	28.2	0.6	0.0	37.3	37.5
Chinese Taipei	813	80.6	80.6	1.4	10.5	7.5	0.0	0.0	83.8	77.9
Egypt	1127	31.0	31.0	12.4	22.4	32.7	1.5	0.1	32.1	29.6
England	692	85.4	85.4	6.0	2.6	5.5	0.2	0.2	87.1	83.6
Georgia	577	22.3	22.3	5.4	27.8	42.9	1.6	0.0	25.6	19.6
Hong Kong SAR	590	85.6	85.6	7.1	2.1	5.2	0.1	0.0	88.1	83.0
Hungary	703	65.0	65.0	3.7	13.3	17.0	0.9	0.0	67.1	63.0
Iran, Islamic Rep. of	867	19.0	19.0	8.3	50.0	22.1	0.7	0.0	21.0	17.1
Ireland	676	79.3	79.3	6.5	4.4	9.4	0.3	0.0	87.2	71.5
Israel	785	65.6	65.6	5.0	9.4	19.7	0.2	0.0	72.6	58.9
Italy	652	65.4	65.4	8.0	10.9	14.7	0.9	0.2	71.9	59.7
Japan	685	94.8	94.8	1.3	3.0	1.0	0.0	0.0	96.0	93.5
Jordan	1109	25.1	25.1	3.9	31.8	37.9	1.3	0.2	30.1	20.0
Kazakhstan	696	30.0	30.0	6.6	26.6	36.2	0.5	0.0	31.5	28.6
Korea, Rep. of	755	91.3	91.3	1.3	5.1	2.3	0.0	0.0	92.9	89.7
Kuwait	661	36.3	36.3	3.0	19.1	39.3	1.5	0.7	42.8	29.4
Lebanon	546	31.3	31.3	6.5	26.8	26.3	7.9	1.2	32.5	30.1
Lithuania	614	63.0	63.0	3.5	9.6	22.7	1.2	0.0	70.2	55.7
Malaysia	1400	66.2	66.2	5.4	7.5	20.6	0.1	0.2	70.6	62.0
Malta	547	72.0	72.0	10.1	3.2	13.5	1.1	0.2	76.7	67.8
Morocco	1733	19.5	19.5	6.6	49.2	21.9	2.8	0.0	19.3	19.6
New Zealand	1206	75.5	75.5	5.1	3.6	14.8	1.0	0.0	79.8	71.4
Norway	676	63.6	63.6	9.6	18.9	5.6	1.9	0.3	69.0	57.8
Oman	1262	39.3	39.3	5.6	15.8	38.9	0.3	0.0	50.3	29.2
Qatar	771	46.2	46.2	5.6	19.2	28.2	0.7	0.1	51.0	41.7
Russian Federation	681	60.7	60.7	4.0	15.1	19.1	1.1	0.0	65.6	55.5
Saudi Arabia	544	29.3	29.3	6.8	24.0	38.4	1.5	0.0	41.8	17.2
Singapore	877	82.2	82.2	4.9	6.6	6.2	0.1	0.0	83.3	81.2
Slovenia	604	65.8	65.8	9.3	6.5	17.6	0.8	0.0	71.5	60.8
South Africa	1791	31.1	31.1	12.3	8.9	46.7	0.9	0.0	34.1	27.5
Sweden	589	85.7	85.7	4.5	4.4	2.5	2.8	0.0	86.8	84.8
Thailand	924	56.5	56.5	8.5	14.2	20.0	0.9	0.0	59.4	53.2
Turkey	871	27.1	27.1	2.5	52.3	18.0	0.0	0.0	30.7	23.4
United Arab Emirates	2572	46.9	46.9	4.1	16.2	31.5	1.3	0.0	51.4	42.2
United States	1470	76.8	76.8	4.7	6.3	11.6	0.5	0.1	82.1	71.6
International Avg (n=39)	36030	56.5	56.5	5.8	15.9	20.6	1.1	0.1	60.9	52.3
Buenos Aires, Argentina	472	46.4	46.4	2.8	22.6	19.8	5.9	2.4	51.1	42.1
Ontario, Canada	638	84.2	84.2	5.1	4.9	5.7	0.1	0.0	88.5	80.0
Quebec, Canada	558	74.6	74.6	5.9	11.9	7.5	0.0	0.0	73.6	75.7
Norway (8)	667	55.2	55.2	8.6	22.6	11.8	1.9	0.0	57.3	53.2
Abu Dhabi, UAE	693	41.0	41.0	3.4	17.2	36.7	1.5	0.1	48.2	33.7
Dubai, UAE	872	65.2	65.2	4.5	11.2	18.2	0.8	0.0	69.6	60.5
Florida, US	287	71.6	71.6	6.9	9.4	11.2	0.6	0.3	70.5	72.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_02 (S062112): Biology / Applying Type: CR 1 Point
Label: Tony gets the measles

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	56.6	41.2	56.6	1.9	0.2	59.4	53.8
Bahrain	697	39.8	58.2	39.8	2.0	0.0	41.6	38.0
Botswana	852	23.0	76.3	23.0	0.7	0.0	26.4	19.4
Canada	1242	61.1	37.5	61.1	1.4	0.0	66.7	55.5
Chile	696	48.2	48.5	48.2	3.3	0.0	51.2	45.7
Chinese Taipei	813	35.6	64.1	35.6	0.3	0.0	35.8	35.5
Egypt	1127	19.2	77.3	19.2	3.2	0.3	22.4	15.6
England	692	74.9	23.9	74.9	1.0	0.2	77.1	72.5
Georgia	577	56.7	41.9	56.7	1.4	0.0	62.1	52.1
Hong Kong SAR	590	51.7	48.0	51.7	0.3	0.0	50.8	52.7
Hungary	703	61.5	38.1	61.5	0.4	0.0	63.1	60.0
Iran, Islamic Rep. of	867	44.2	54.4	44.2	1.4	0.1	48.1	40.6
Ireland	676	68.5	31.1	68.5	0.3	0.0	72.1	65.1
Israel	785	32.2	66.3	32.2	1.5	0.0	31.2	33.1
Italy	651	73.1	25.8	73.1	1.0	0.2	75.8	70.7
Japan	685	67.9	31.8	67.9	0.2	0.0	75.9	59.1
Jordan	1109	42.4	56.2	42.4	1.2	0.2	48.5	36.2
Kazakhstan	696	71.3	23.6	71.3	5.2	0.0	78.0	64.6
Korea, Rep. of	755	58.7	40.7	58.7	0.6	0.0	63.1	54.5
Kuwait	662	28.7	68.1	28.7	2.4	0.7	35.7	21.3
Lebanon	556	34.8	56.4	34.8	6.8	1.9	36.3	33.3
Lithuania	614	66.9	32.9	66.9	0.3	0.0	71.4	62.3
Malaysia	1400	42.4	54.8	42.4	2.6	0.2	43.8	41.1
Malta	547	48.2	49.7	48.2	2.0	0.2	51.2	45.4
Morocco	1734	22.1	74.2	22.1	3.6	0.1	24.2	20.4
New Zealand	1206	58.5	39.9	58.5	1.6	0.0	63.0	54.2
Norway	676	72.4	26.3	72.4	1.0	0.3	75.5	69.0
Oman	1250	33.4	65.0	33.4	1.5	0.0	36.3	30.7
Qatar	771	32.6	66.1	32.6	1.2	0.1	37.0	28.3
Russian Federation	681	61.2	36.6	61.2	2.2	0.0	59.2	63.3
Saudi Arabia	545	36.6	61.4	36.6	2.0	0.0	43.1	30.4
Singapore	877	47.4	52.5	47.4	0.1	0.0	44.5	50.5
Slovenia	604	68.3	31.7	68.3	0.0	0.0	70.6	66.1
South Africa	1791	23.7	75.3	23.7	1.0	0.0	25.4	21.6
Sweden	589	70.7	28.4	70.7	0.9	0.0	73.7	68.0
Thailand	924	28.9	67.2	28.9	3.8	0.0	30.9	26.6
Turkey	871	58.4	41.3	58.4	0.3	0.0	65.2	51.4
United Arab Emirates	2572	40.3	57.7	40.3	1.9	0.1	43.2	37.3
United States	1470	53.3	45.6	53.3	1.1	0.1	55.8	50.8
International Avg (n=39)	36033	49.1	49.1	49.1	1.6	0.1	52.2	46.1
Buenos Aires, Argentina	472	46.0	44.5	46.0	5.6	3.9	50.9	41.4
Ontario, Canada	639	59.1	38.9	59.1	2.1	0.0	65.3	52.9
Quebec, Canada	559	67.3	32.2	67.3	0.5	0.0	69.4	64.9
Norway (8)	667	73.2	26.1	73.2	0.7	0.0	76.2	70.3
Abu Dhabi, UAE	693	37.7	59.7	37.7	2.5	0.1	48.4	26.7
Dubai, UAE	872	48.1	50.5	48.1	1.3	0.1	47.0	49.4
Florida, US	287	46.6	51.8	46.6	1.2	0.3	45.9	47.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_03 (S062119): Biology / Reasoning Type: MC Key: C
Label: Fossils in rock layers

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	66.7	3.8	19.9	66.7	7.4	2.0	0.2	66.0	67.4
Bahrain	697	49.3	11.8	19.6	49.3	16.9	2.4	0.0	56.4	42.4
Botswana	852	34.1	7.6	31.3	34.1	25.0	2.0	0.0	32.8	35.4
Canada	1231	67.5	3.8	17.4	67.5	10.0	1.2	0.0	68.6	66.4
Chile	696	57.8	4.3	20.3	57.8	15.2	2.1	0.3	54.2	60.9
Chinese Taipei	813	84.3	3.5	6.0	84.3	6.1	0.2	0.0	85.2	83.5
Egypt	1127	36.5	19.4	22.2	36.5	18.9	2.7	0.3	38.4	34.4
England	692	68.6	4.8	13.6	68.6	8.6	4.2	0.2	70.9	66.2
Georgia	577	46.1	10.0	18.0	46.1	21.4	4.5	0.0	45.9	46.3
Hong Kong SAR	590	82.1	3.8	7.8	82.1	6.0	0.3	0.0	80.8	83.4
Hungary	703	62.0	7.5	18.9	62.0	6.6	5.0	0.0	62.4	61.7
Iran, Islamic Rep. of	867	58.5	5.6	18.5	58.5	15.1	2.2	0.1	62.9	54.6
Ireland	676	61.7	4.6	18.2	61.7	11.5	4.1	0.0	66.0	57.5
Israel	785	61.7	5.2	19.4	61.7	11.3	2.4	0.0	66.2	57.4
Italy	652	70.5	1.7	14.5	70.5	10.3	2.9	0.2	69.5	71.3
Japan	685	88.3	1.3	5.5	88.3	2.8	2.1	0.0	90.3	86.1
Jordan	1109	52.2	12.1	19.7	52.2	11.5	4.3	0.2	56.6	47.8
Kazakhstan	696	43.6	8.2	18.4	43.6	27.1	2.7	0.0	46.1	41.1
Korea, Rep. of	755	79.7	2.1	11.2	79.7	7.0	0.1	0.0	82.1	77.3
Kuwait	657	31.5	18.6	25.3	31.5	17.3	6.5	0.7	34.3	28.3
Lebanon	543	40.4	8.1	21.7	40.4	14.4	13.3	2.2	42.1	38.6
Lithuania	614	68.7	4.0	12.9	68.7	11.6	2.8	0.0	70.3	67.0
Malaysia	1400	54.0	2.2	27.9	54.0	14.7	1.0	0.2	53.3	54.7
Malta	547	56.9	8.5	18.3	56.9	8.2	8.0	0.2	58.0	55.9
Morocco	1733	44.6	14.8	19.2	44.6	18.1	3.3	0.0	45.3	44.0
New Zealand	1206	59.7	5.0	22.9	59.7	9.7	2.6	0.1	62.8	56.7
Norway	676	65.7	3.2	15.6	65.7	13.0	2.3	0.3	67.2	64.1
Oman	1262	52.3	9.8	17.7	52.3	18.5	1.7	0.0	61.2	44.1
Qatar	771	47.8	11.8	18.7	47.8	18.7	2.8	0.1	52.4	43.4
Russian Federation	681	70.6	2.1	14.9	70.6	10.2	2.3	0.0	73.9	67.2
Saudi Arabia	545	34.3	17.3	21.7	34.3	23.6	3.1	0.0	35.4	33.3
Singapore	877	76.4	4.0	13.5	76.4	6.0	0.2	0.0	76.3	76.5
Slovenia	604	64.0	4.1	12.8	64.0	10.7	8.4	0.0	66.5	61.7
South Africa	1791	23.7	11.5	35.2	23.7	27.2	2.3	0.0	23.9	23.5
Sweden	589	63.2	3.6	16.0	63.2	12.7	4.5	0.0	64.2	62.3
Thailand	924	49.4	4.3	27.5	49.4	16.4	2.4	0.0	50.7	48.0
Turkey	871	49.4	12.6	17.6	49.4	19.0	1.4	0.0	49.1	49.8
United Arab Emirates	2571	56.7	8.3	19.3	56.7	11.5	4.1	0.1	61.1	52.1
United States	1470	74.7	3.0	17.4	74.7	3.7	1.2	0.1	75.1	74.2
International Avg (n=39)	36015	57.8	7.1	18.4	57.8	13.4	3.1	0.1	59.6	56.1
Buenos Aires, Argentina	467	45.9	5.1	16.5	45.9	12.2	15.9	4.4	42.6	49.0
Ontario, Canada	633	67.7	4.1	18.5	67.7	8.2	1.5	0.0	70.5	64.8
Quebec, Canada	555	67.8	3.5	14.0	67.8	13.6	1.0	0.0	66.6	69.2
Norway (8)	667	60.8	4.4	13.6	60.8	15.6	5.5	0.0	57.9	63.7
Abu Dhabi, UAE	693	58.3	8.5	17.5	58.3	11.8	3.7	0.1	65.5	50.9
Dubai, UAE	871	65.5	6.8	16.4	65.5	8.7	2.4	0.2	68.1	62.7
Florida, US	287	73.5	1.5	13.5	73.5	10.0	1.0	0.6	72.7	74.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_04 (S062093): Biology / Knowing Type: CR 2 Points
Label: Mammals in cold weather

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	57.9	26.3	7.3	84.2	57.9	8.2	0.2	60.3	55.5
Bahrain	697	35.6	35.0	13.5	70.6	35.6	15.9	0.0	43.6	28.0
Botswana	852	10.1	26.5	52.5	36.7	10.1	10.8	0.0	11.6	8.6
Canada	1242	59.7	28.2	5.6	87.9	59.7	6.6	0.0	60.1	59.3
Chile	696	14.9	29.7	25.4	44.6	14.9	29.6	0.3	16.4	13.8
Chinese Taipei	813	45.1	34.6	11.6	79.7	45.1	8.8	0.0	49.5	41.2
Egypt	1127	7.4	21.2	40.3	28.6	7.4	30.7	0.4	8.5	6.2
England	692	50.2	37.1	6.1	87.4	50.2	6.2	0.3	53.5	46.7
Georgia	577	31.0	29.3	11.2	60.3	31.0	28.2	0.4	32.5	29.7
Hong Kong SAR	590	42.0	37.8	13.1	79.9	42.0	7.1	0.0	44.1	39.9
Hungary	703	55.5	28.9	4.4	84.4	55.5	11.2	0.0	62.1	49.0
Iran, Islamic Rep. of	867	2.5	25.4	45.1	27.9	2.5	27.0	0.1	2.2	2.9
Ireland	676	51.1	31.0	9.4	82.1	51.1	8.5	0.0	53.3	49.0
Israel	785	36.4	31.9	12.8	68.3	36.4	18.9	0.0	38.3	34.6
Italy	652	29.3	30.5	11.5	59.8	29.3	28.5	0.2	31.3	27.5
Japan	685	48.0	38.2	7.3	86.2	48.0	6.5	0.0	51.0	44.6
Jordan	1109	15.2	38.5	28.5	53.6	15.2	17.7	0.2	16.9	13.4
Kazakhstan	696	23.3	45.2	12.1	68.5	23.3	19.4	0.0	26.6	20.2
Korea, Rep. of	755	27.8	55.7	10.4	83.5	27.8	6.1	0.0	30.2	25.4
Kuwait	658	21.0	29.4	21.1	50.4	21.0	27.8	0.7	25.5	16.1
Lebanon	556	9.4	18.0	24.4	27.5	9.4	45.9	2.2	9.0	9.8
Lithuania	614	45.6	32.4	7.6	78.1	45.6	14.3	0.0	54.2	36.9
Malaysia	1400	46.0	23.8	21.7	69.8	46.0	8.4	0.2	47.9	44.1
Malta	547	42.5	25.7	14.6	68.1	42.5	17.1	0.2	46.6	38.8
Morocco	1734	9.6	23.0	22.7	32.6	9.6	44.6	0.1	9.0	10.1
New Zealand	1206	47.9	32.5	10.7	80.4	47.9	8.7	0.1	52.5	43.6
Norway	676	37.2	36.5	9.3	73.8	37.2	16.6	0.3	39.4	34.9
Oman	1262	17.1	38.5	32.4	55.6	17.1	12.0	0.0	20.8	13.6
Qatar	771	24.2	33.3	24.2	57.5	24.2	18.1	0.2	27.9	20.6
Russian Federation	681	57.0	21.3	3.6	78.3	57.0	18.0	0.0	60.8	53.0
Saudi Arabia	545	17.5	31.7	27.2	49.2	17.5	23.6	0.0	23.9	11.3
Singapore	877	60.7	29.2	8.6	89.9	60.7	1.5	0.0	61.5	59.9
Slovenia	604	43.9	27.0	12.9	70.9	43.9	16.2	0.0	53.3	35.4
South Africa	1791	8.4	15.5	61.5	24.0	8.4	14.5	0.0	9.1	7.7
Sweden	589	45.5	34.6	8.1	80.1	45.5	11.7	0.0	46.5	44.6
Thailand	924	17.0	39.4	27.9	56.4	17.0	15.7	0.0	19.1	14.7
Turkey	871	35.1	38.6	13.8	73.7	35.1	12.5	0.0	35.1	35.2
United Arab Emirates	2572	31.8	35.5	20.3	67.3	31.8	12.3	0.1	35.7	27.7
United States	1470	52.0	36.1	7.9	88.0	52.0	3.9	0.1	55.5	48.6
International Avg (n=39)	36042	33.7	31.6	18.2	65.3	33.7	16.4	0.2	36.5	30.8
Buenos Aires, Argentina	471	9.2	24.7	15.8	33.9	9.2	45.7	4.7	9.7	8.8
Ontario, Canada	639	59.4	28.8	5.5	88.1	59.4	6.3	0.0	57.0	61.7
Quebec, Canada	559	57.1	30.5	6.0	87.6	57.1	6.4	0.0	59.0	55.0
Norway (8)	667	36.9	38.0	7.8	74.9	36.9	17.3	0.0	42.2	31.8
Abu Dhabi, UAE	693	28.4	32.6	25.2	61.0	28.4	13.6	0.1	33.7	23.0
Dubai, UAE	872	41.6	36.0	14.8	77.6	41.6	7.5	0.2	46.3	36.4
Florida, US	287	46.1	41.2	7.1	87.2	46.1	5.1	0.6	46.3	45.8

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_05 (S062089): Biology / Knowing Type: MC Key: D
Label: Symbiosis between two organisms

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	32.3	11.8	42.8	11.6	32.3	1.3	0.2	30.6	34.0
Bahrain	697	37.3	14.0	38.0	9.1	37.3	1.5	0.1	43.0	31.8
Botswana	852	27.8	21.7	36.0	13.2	27.8	1.1	0.2	29.6	25.9
Canada	1240	29.3	13.6	45.5	10.0	29.3	1.6	0.1	29.4	29.3
Chile	696	22.4	19.6	37.0	16.3	22.4	4.2	0.5	18.5	25.7
Chinese Taipei	813	77.9	4.9	13.0	4.2	77.9	0.0	0.0	78.4	77.5
Egypt	1127	28.8	9.6	47.0	11.5	28.8	2.6	0.5	30.3	27.2
England	692	18.8	10.0	50.9	16.7	18.8	3.3	0.3	18.6	19.0
Georgia	577	27.6	17.3	29.5	18.4	27.6	6.9	0.4	31.6	24.2
Hong Kong SAR	590	53.9	17.9	22.5	4.5	53.9	1.4	0.0	53.5	54.3
Hungary	703	35.5	14.8	26.8	20.5	35.5	2.4	0.0	31.8	39.0
Iran, Islamic Rep. of	867	29.3	8.2	42.9	18.8	29.3	0.7	0.1	32.7	26.2
Ireland	676	18.1	12.1	54.1	14.4	18.1	1.4	0.0	16.5	19.6
Israel	785	52.1	7.2	29.8	9.2	52.1	1.7	0.0	57.5	46.9
Italy	652	20.5	10.6	53.4	12.5	20.5	2.9	0.2	18.8	22.1
Japan	685	39.4	25.7	17.9	14.7	39.4	2.3	0.0	39.2	39.6
Jordan	1109	37.5	10.2	37.8	11.8	37.5	2.5	0.2	41.6	33.3
Kazakhstan	696	38.2	22.2	25.7	12.3	38.2	1.3	0.2	38.2	38.2
Korea, Rep. of	755	58.3	12.2	19.0	10.2	58.3	0.2	0.0	55.9	60.6
Kuwait	662	25.0	13.9	42.2	15.2	25.0	2.9	0.8	27.9	22.3
Lebanon	551	9.8	20.8	45.6	11.1	9.8	10.1	2.5	7.1	12.6
Lithuania	614	22.6	16.2	35.5	18.8	22.6	6.8	0.0	21.0	24.2
Malaysia	1400	43.3	12.8	27.3	15.3	43.3	1.2	0.2	44.5	42.2
Malta	547	18.3	10.1	56.7	11.1	18.3	3.6	0.2	18.1	18.5
Morocco	1733	16.6	10.7	54.0	15.1	16.6	3.6	0.0	15.8	17.1
New Zealand	1206	30.9	10.7	44.5	11.5	30.9	2.3	0.1	30.1	31.6
Norway	676	21.2	21.5	34.4	17.5	21.2	5.2	0.3	20.1	22.3
Oman	1262	44.3	17.9	24.9	11.5	44.3	1.5	0.0	43.6	44.9
Qatar	771	30.1	13.6	42.6	11.2	30.1	2.2	0.2	28.0	32.0
Russian Federation	681	46.8	16.1	26.9	7.5	46.8	2.7	0.0	46.7	47.0
Saudi Arabia	545	15.6	18.2	51.7	12.4	15.6	2.1	0.0	17.7	13.6
Singapore	877	61.6	4.9	26.4	6.5	61.6	0.6	0.0	60.5	62.7
Slovenia	604	40.5	17.7	33.2	5.8	40.5	2.8	0.0	39.1	41.8
South Africa	1791	16.4	22.1	44.6	14.9	16.4	1.8	0.2	17.6	14.9
Sweden	589	35.1	18.1	32.6	10.0	35.1	4.3	0.0	34.6	35.6
Thailand	924	50.4	11.2	28.7	8.0	50.4	1.7	0.0	53.1	47.3
Turkey	871	25.2	18.6	38.9	15.3	25.2	2.1	0.0	24.3	26.1
United Arab Emirates	2571	32.5	13.4	41.2	10.2	32.5	2.7	0.1	36.2	28.5
United States	1470	40.8	10.2	36.7	10.4	40.8	1.6	0.2	40.3	41.4
International Avg (n=39)	36037	33.6	14.4	36.9	12.3	33.6	2.6	0.2	33.9	33.4
Buenos Aires, Argentina	466	25.7	14.8	24.2	13.1	25.7	17.3	4.9	30.5	21.3
Ontario, Canada	639	30.3	14.3	44.4	9.3	30.3	1.6	0.1	30.0	30.6
Quebec, Canada	558	27.6	11.1	47.2	12.1	27.6	1.9	0.1	28.4	26.7
Norway (8)	667	17.8	17.1	37.6	22.6	17.8	4.9	0.0	19.1	16.5
Abu Dhabi, UAE	693	29.7	10.9	43.1	11.7	29.7	4.5	0.1	37.9	21.3
Dubai, UAE	871	39.8	14.1	34.4	10.5	39.8	1.1	0.2	39.7	39.9
Florida, US	287	40.1	10.4	35.4	10.4	40.1	3.1	0.6	41.1	39.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_06 (S062006): Chemistry / Knowing Type: CR 1 Point
Label: Atoms in nitric acid

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	38.6	46.3	38.6	14.8	0.2	39.1	38.1
Bahrain	697	33.9	56.0	33.9	10.1	0.1	47.3	21.1
Botswana	852	7.1	88.5	7.1	4.2	0.2	8.4	5.8
Canada	1242	35.6	49.8	35.6	14.4	0.2	34.9	36.2
Chile	696	30.4	33.4	30.4	35.7	0.5	27.5	32.8
Chinese Taipei	813	46.8	40.9	46.8	12.3	0.0	49.2	44.6
Egypt	1127	25.2	62.2	25.2	12.1	0.5	27.8	22.4
England	692	50.5	37.6	50.5	11.6	0.3	54.2	46.5
Georgia	577	32.6	40.4	32.6	26.6	0.4	34.7	30.8
Hong Kong SAR	590	22.5	56.2	22.5	21.4	0.0	19.2	25.8
Hungary	703	46.1	38.3	46.1	15.7	0.0	47.6	44.5
Iran, Islamic Rep. of	867	16.8	56.3	16.8	26.8	0.1	19.6	14.3
Ireland	676	34.8	51.0	34.8	14.2	0.0	40.0	29.7
Israel	785	55.4	30.8	55.4	13.7	0.1	61.5	49.5
Italy	652	36.6	31.2	36.6	32.1	0.2	32.7	40.0
Japan	685	59.5	35.5	59.5	5.0	0.0	61.0	57.8
Jordan	1109	31.7	59.4	31.7	8.7	0.2	40.0	23.3
Kazakhstan	696	62.4	30.5	62.4	6.9	0.2	60.9	63.8
Korea, Rep. of	755	60.4	34.0	60.4	5.6	0.0	66.3	54.7
Kuwait	664	36.4	47.2	36.4	15.4	1.0	43.7	29.1
Lebanon	556	51.6	36.6	51.6	8.9	2.9	53.2	49.9
Lithuania	614	42.7	46.5	42.7	10.8	0.0	49.1	36.2
Malaysia	1400	20.4	66.1	20.4	13.3	0.2	21.1	19.8
Malta	547	35.6	47.4	35.6	16.8	0.2	41.1	30.7
Morocco	1734	38.2	49.7	38.2	12.0	0.1	42.7	34.6
New Zealand	1206	31.8	51.9	31.8	16.2	0.1	33.9	29.8
Norway	676	43.8	41.7	43.8	14.3	0.3	46.6	40.8
Oman	1262	44.4	50.1	44.4	5.5	0.0	52.1	37.3
Qatar	771	42.3	44.4	42.3	13.1	0.2	45.9	38.8
Russian Federation	681	66.5	25.5	66.5	8.0	0.0	65.9	67.2
Saudi Arabia	545	11.7	67.8	11.7	20.6	0.0	16.0	7.4
Singapore	877	73.1	24.5	73.1	2.3	0.0	74.9	71.3
Slovenia	604	65.4	28.6	65.4	6.0	0.0	71.1	60.3
South Africa	1791	19.0	76.7	19.0	4.1	0.2	24.3	12.8
Sweden	589	55.1	31.5	55.1	13.4	0.0	56.8	53.5
Thailand	924	24.1	53.5	24.1	22.2	0.2	29.6	17.9
Turkey	871	39.2	51.1	39.2	9.7	0.0	43.2	35.0
United Arab Emirates	2572	47.9	44.8	47.9	7.2	0.1	52.7	42.9
United States	1470	49.8	44.1	49.8	5.9	0.2	50.6	49.2
International Avg (n=39)	36048	40.2	46.4	40.2	13.3	0.2	43.2	37.1
Buenos Aires, Argentina	472	17.3	34.1	17.3	43.5	5.1	14.9	19.5
Ontario, Canada	639	21.2	60.2	21.2	18.4	0.2	19.2	23.2
Quebec, Canada	559	68.9	26.6	68.9	4.5	0.1	68.0	69.8
Norway (8)	667	38.4	42.3	38.4	19.3	0.0	39.4	37.4
Abu Dhabi, UAE	693	39.8	51.2	39.8	8.9	0.1	48.6	30.8
Dubai, UAE	872	59.4	35.6	59.4	4.9	0.2	60.2	58.4
Florida, US	287	32.8	58.4	32.8	8.2	0.6	34.2	31.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_07 (S062067): Chemistry / Reasoning Type: CR 1 Point
Label: Rate of sugar dissolving

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	44.3	52.0	44.3	3.5	0.2	42.0	46.6
Bahrain	697	39.7	56.2	39.7	4.0	0.1	42.9	36.7
Botswana	846	23.3	75.1	23.3	1.4	0.2	23.0	23.7
Canada	1242	43.0	54.7	43.0	2.1	0.2	44.2	41.9
Chile	696	23.8	57.7	23.8	18.0	0.5	19.6	27.4
Chinese Taipei	813	65.4	31.7	65.4	2.9	0.0	63.2	67.3
Egypt	1127	11.6	75.9	11.6	12.0	0.5	13.3	9.6
England	692	49.5	46.6	49.5	3.6	0.3	49.3	49.6
Georgia	577	32.9	47.4	32.9	19.2	0.5	34.8	31.3
Hong Kong SAR	590	72.3	27.0	72.3	0.6	0.0	71.9	72.7
Hungary	703	53.3	42.7	53.3	3.9	0.0	53.5	53.2
Iran, Islamic Rep. of	867	27.9	60.0	27.9	12.1	0.1	24.7	30.7
Ireland	676	48.6	48.2	48.6	3.1	0.0	51.1	46.2
Israel	785	48.4	44.9	48.4	6.6	0.1	50.0	46.8
Italy	652	41.0	47.4	41.0	11.5	0.2	39.9	42.0
Japan	685	70.0	27.6	70.0	2.4	0.0	71.9	67.9
Jordan	1109	21.9	71.6	21.9	6.4	0.2	20.4	23.4
Kazakhstan	696	30.5	60.4	30.5	8.9	0.2	32.7	28.3
Korea, Rep. of	755	76.7	20.6	76.7	2.6	0.0	81.3	72.3
Kuwait	664	15.3	69.4	15.3	14.3	1.0	17.5	13.2
Lebanon	556	23.7	57.7	23.7	15.7	2.9	21.5	26.0
Lithuania	614	52.2	44.2	52.2	3.7	0.0	49.2	55.2
Malaysia	1400	44.8	53.1	44.8	2.0	0.2	44.1	45.5
Malta	547	37.2	57.1	37.2	5.5	0.2	39.0	35.6
Morocco	1733	19.4	69.4	19.4	10.9	0.3	19.3	19.4
New Zealand	1206	45.3	48.5	45.3	5.9	0.4	49.4	41.5
Norway	676	44.8	49.0	44.8	5.9	0.3	48.3	41.1
Oman	1262	28.7	66.7	28.7	4.7	0.0	31.2	26.3
Qatar	771	31.1	60.6	31.1	8.0	0.2	33.8	28.6
Russian Federation	681	65.2	30.5	65.2	4.3	0.0	62.8	67.7
Saudi Arabia	545	19.5	70.1	19.5	10.4	0.0	22.5	16.6
Singapore	877	71.7	27.9	71.7	0.4	0.0	73.1	70.2
Slovenia	604	47.8	49.0	47.8	3.2	0.0	46.6	48.8
South Africa	1791	12.2	82.9	12.2	4.5	0.4	11.4	13.0
Sweden	589	48.2	43.1	48.2	8.7	0.0	54.1	42.7
Thailand	924	28.3	64.3	28.3	7.3	0.2	26.6	30.2
Turkey	871	49.8	46.4	49.8	3.8	0.0	48.7	50.9
United Arab Emirates	2572	34.1	60.8	34.1	4.9	0.2	33.3	35.0
United States	1470	34.7	61.3	34.7	3.8	0.2	34.4	35.1
International Avg (n=39)	36041	40.5	52.8	40.5	6.5	0.2	40.9	40.0
Buenos Aires, Argentina	472	13.5	49.9	13.5	30.5	6.1	17.8	9.5
Ontario, Canada	639	44.5	53.4	44.5	1.9	0.2	46.9	42.1
Quebec, Canada	559	41.2	56.4	41.2	2.4	0.1	40.6	41.8
Norway (8)	667	38.0	54.2	38.0	7.8	0.0	43.1	33.2
Abu Dhabi, UAE	693	29.1	64.9	29.1	5.9	0.2	29.7	28.4
Dubai, UAE	872	45.9	51.6	45.9	2.4	0.2	42.9	49.2
Florida, US	287	36.0	57.7	36.0	5.3	1.0	37.8	34.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_08 (S062247): Chemistry / Knowing Type: MC Key: B
Label: Properties of baking soda

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	36.2	11.9	36.2	25.5	22.0	4.2	0.2	33.2	39.2
Bahrain	697	37.2	36.0	37.2	12.3	12.4	2.1	0.1	37.9	36.5
Botswana	846	34.7	21.1	34.7	10.6	31.8	1.6	0.2	29.4	40.3
Canada	1238	48.2	13.0	48.2	19.1	16.5	3.2	0.2	49.1	47.3
Chile	696	23.6	8.6	23.6	26.5	33.3	7.6	0.5	21.2	25.5
Chinese Taipei	813	80.3	12.0	80.3	6.1	1.3	0.4	0.0	83.3	77.5
Egypt	1127	17.5	46.7	17.5	18.4	15.3	1.7	0.5	14.0	21.4
England	692	43.0	20.1	43.0	20.4	11.0	5.1	0.3	40.9	45.3
Georgia	577	16.4	33.7	16.4	21.7	23.3	4.4	0.5	18.6	14.7
Hong Kong SAR	590	71.0	16.5	71.0	7.4	4.9	0.2	0.0	72.5	69.4
Hungary	703	47.2	22.9	47.2	13.3	14.9	1.6	0.0	44.6	49.8
Iran, Islamic Rep. of	867	40.4	15.0	40.4	16.4	24.9	3.4	0.1	43.8	37.3
Ireland	676	49.9	27.7	49.9	9.4	11.3	1.7	0.0	54.4	45.5
Israel	785	37.2	21.9	37.2	23.9	12.3	4.4	0.3	35.6	38.8
Italy	652	38.3	13.7	38.3	24.2	18.2	5.5	0.2	38.1	38.5
Japan	685	19.3	63.4	19.3	11.9	4.9	0.4	0.0	17.4	21.4
Jordan	1109	14.3	53.4	14.3	21.9	7.3	2.9	0.2	11.4	17.3
Kazakhstan	696	40.1	16.3	40.1	11.5	30.0	1.9	0.2	39.5	40.7
Korea, Rep. of	755	33.9	44.7	33.9	11.1	10.1	0.3	0.0	34.0	33.7
Kuwait	664	20.8	16.0	20.8	38.1	20.7	3.3	1.1	14.7	26.9
Lebanon	551	41.7	17.3	41.7	15.3	15.1	7.7	3.0	41.4	42.0
Lithuania	614	19.3	27.0	19.3	20.6	29.6	3.4	0.0	22.0	16.5
Malaysia	1400	41.5	33.1	41.5	9.5	15.3	0.4	0.2	41.6	41.5
Malta	547	39.4	17.9	39.4	18.4	20.2	3.9	0.2	39.7	39.2
Morocco	1733	10.4	17.1	10.4	43.6	24.4	4.2	0.3	7.2	12.8
New Zealand	1206	33.6	14.2	33.6	22.4	26.3	3.1	0.4	29.3	37.7
Norway	676	57.8	12.2	57.8	11.2	16.5	2.0	0.3	55.3	60.5
Oman	1262	48.9	31.4	48.9	7.4	10.8	1.5	0.0	59.0	39.5
Qatar	771	28.9	30.8	28.9	20.6	16.3	3.2	0.3	25.8	31.8
Russian Federation	681	24.0	21.8	24.0	26.5	23.2	4.4	0.0	23.1	24.9
Saudi Arabia	545	29.5	27.9	29.5	20.2	19.8	2.6	0.0	30.4	28.5
Singapore	877	67.3	13.6	67.3	7.8	10.7	0.6	0.0	68.2	66.4
Slovenia	604	29.5	13.0	29.5	18.4	35.7	3.4	0.0	26.8	32.0
South Africa	1791	37.7	15.0	37.7	12.0	32.8	1.6	0.7	38.2	37.2
Sweden	589	61.2	8.2	61.2	10.5	16.1	4.1	0.0	62.3	60.3
Thailand	924	37.0	34.6	37.0	14.6	11.9	1.6	0.3	37.6	36.3
Turkey	871	56.6	18.4	56.6	10.9	13.8	0.2	0.1	61.3	51.7
United Arab Emirates	2571	35.2	27.3	35.2	15.4	19.2	2.7	0.2	32.9	37.6
United States	1470	45.9	15.1	45.9	22.9	13.4	2.5	0.3	46.4	45.3
International Avg (n=39)	36031	38.3	23.3	38.3	17.4	17.9	2.8	0.3	38.0	38.7
Buenos Aires, Argentina	465	18.9	10.5	18.9	18.2	17.3	28.7	6.4	20.2	17.7
Ontario, Canada	637	47.4	5.9	47.4	21.3	21.0	4.1	0.2	47.9	47.0
Quebec, Canada	557	49.8	28.8	49.8	13.6	6.3	1.5	0.1	50.1	49.4
Norway (8)	667	51.9	8.4	51.9	17.2	19.5	3.0	0.0	53.1	50.7
Abu Dhabi, UAE	693	35.9	28.6	35.9	14.4	17.8	3.1	0.2	34.9	36.8
Dubai, UAE	871	44.9	20.6	44.9	12.9	19.7	1.8	0.2	40.8	49.3
Florida, US	287	55.5	12.9	55.5	18.5	9.5	2.4	1.3	55.9	55.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_09 (S062177): Earth Science / Knowing Type: MC Key: D
Label: Formation of oil

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	35.5	40.9	12.7	8.9	35.5	1.8	0.2	28.6	42.4
Bahrain	697	47.2	27.1	14.7	9.5	47.2	1.4	0.1	50.4	44.2
Botswana	846	39.5	25.1	19.6	14.2	39.5	1.4	0.2	38.0	41.0
Canada	1239	42.9	36.4	8.5	10.4	42.9	1.5	0.4	35.0	50.9
Chile	696	32.9	36.3	7.5	19.7	32.9	2.9	0.6	25.5	39.0
Chinese Taipei	813	64.9	21.9	4.5	8.6	64.9	0.2	0.0	60.0	69.2
Egypt	1127	38.3	18.4	16.3	24.4	38.3	2.1	0.5	37.7	39.0
England	692	45.8	32.4	13.2	6.9	45.8	1.3	0.3	43.0	48.7
Georgia	577	12.7	61.5	6.1	15.7	12.7	3.6	0.5	11.1	14.0
Hong Kong SAR	590	67.0	11.0	15.3	6.5	67.0	0.2	0.0	60.2	73.9
Hungary	703	40.0	37.3	10.0	12.2	40.0	0.6	0.0	31.3	48.4
Iran, Islamic Rep. of	867	62.7	13.9	13.0	7.9	62.7	2.6	0.1	59.7	65.5
Ireland	676	43.9	30.6	13.4	11.3	43.9	0.9	0.0	36.4	51.3
Israel	785	42.8	26.9	8.9	18.7	42.8	2.5	0.3	36.1	49.2
Italy	652	51.4	23.3	9.6	12.8	51.4	2.8	0.2	42.8	59.1
Japan	685	31.1	45.5	8.1	14.7	31.1	0.6	0.0	26.5	36.3
Jordan	1109	57.8	11.9	18.8	9.8	57.8	1.5	0.2	58.4	57.2
Kazakhstan	696	49.0	25.3	10.4	14.0	49.0	1.1	0.2	48.5	49.6
Korea, Rep. of	755	46.5	35.2	5.1	13.0	46.5	0.1	0.0	35.5	57.4
Kuwait	665	52.0	16.9	13.5	14.0	52.0	2.5	1.1	52.8	51.8
Lebanon	554	23.1	24.3	19.2	20.8	23.1	9.7	3.0	22.1	24.0
Lithuania	614	38.3	36.4	9.4	15.6	38.3	0.4	0.0	35.6	41.0
Malaysia	1400	45.9	23.9	12.5	17.1	45.9	0.4	0.2	40.9	50.7
Malta	547	41.1	34.4	12.8	9.4	41.1	2.1	0.2	40.4	41.7
Morocco	1733	23.1	28.0	14.0	31.5	23.1	3.2	0.2	26.1	20.7
New Zealand	1206	37.7	38.4	10.9	10.4	37.7	2.3	0.4	29.8	45.0
Norway	676	64.2	13.8	15.1	5.5	64.2	1.1	0.3	60.6	68.1
Oman	1262	46.3	28.9	10.6	13.1	46.3	1.1	0.0	42.7	49.7
Qatar	771	44.9	20.3	18.0	15.0	44.9	1.5	0.3	42.7	47.0
Russian Federation	681	38.9	29.0	8.5	20.5	38.9	3.1	0.0	36.9	41.0
Saudi Arabia	545	39.8	27.0	15.7	16.3	39.8	1.3	0.0	34.7	44.6
Singapore	877	38.1	47.2	7.2	6.7	38.1	0.8	0.0	32.4	44.3
Slovenia	604	45.4	35.9	8.0	9.9	45.4	0.8	0.0	36.7	53.2
South Africa	1791	22.4	43.9	17.3	14.5	22.4	1.3	0.7	22.8	21.8
Sweden	589	49.3	23.3	18.3	5.2	49.3	3.8	0.0	42.6	55.5
Thailand	924	32.1	41.5	10.5	14.0	32.1	1.6	0.3	29.5	35.2
Turkey	871	38.5	42.7	5.7	12.6	38.5	0.4	0.1	35.3	41.7
United Arab Emirates	2571	49.9	22.7	15.7	8.7	49.9	2.9	0.2	48.6	51.2
United States	1470	37.9	43.1	9.1	9.0	37.9	0.6	0.3	32.3	43.2
International Avg (n=39)	36036	42.6	30.3	12.0	13.0	42.6	1.8	0.3	38.7	46.4
Buenos Aires, Argentina	467	37.1	23.8	5.3	16.2	37.1	11.1	6.5	38.1	36.2
Ontario, Canada	637	39.2	41.2	7.4	9.8	39.2	2.2	0.2	34.2	44.1
Quebec, Canada	558	52.5	26.0	11.5	8.7	52.5	0.5	0.8	41.3	65.0
Norway (8)	667	54.5	17.5	20.3	5.4	54.5	2.4	0.0	47.0	61.7
Abu Dhabi, UAE	693	46.7	21.9	14.5	13.2	46.7	3.6	0.2	46.8	46.6
Dubai, UAE	871	48.4	27.3	18.0	5.4	48.4	0.7	0.2	42.6	54.7
Florida, US	287	31.1	46.8	11.4	8.9	31.1	0.6	1.3	24.0	37.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_10 (S062186): Earth Science / Knowing Type: MC Key: B
Label: Greenhouse on Mars

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	24.1	23.7	24.1	10.5	39.6	1.8	0.2	21.8	26.3
Bahrain	697	36.3	19.8	36.3	16.2	24.9	2.7	0.1	36.1	36.5
Botswana	846	23.6	20.2	23.6	20.5	34.3	1.1	0.2	24.8	22.4
Canada	1240	21.9	27.1	21.9	9.8	39.1	1.7	0.5	18.6	25.2
Chile	696	25.1	29.1	25.1	10.6	30.8	3.5	0.9	23.5	26.5
Chinese Taipei	813	64.5	11.9	64.5	12.3	11.1	0.2	0.0	61.7	67.0
Egypt	1127	38.8	20.3	38.8	21.5	16.9	1.9	0.5	36.3	41.7
England	692	30.7	20.9	30.7	11.2	34.4	2.5	0.3	28.3	33.2
Georgia	577	40.3	17.5	40.3	12.8	23.9	4.7	0.8	39.1	41.2
Hong Kong SAR	590	53.9	15.5	53.9	10.3	19.8	0.5	0.0	47.9	59.9
Hungary	703	50.0	24.6	50.0	4.8	20.4	0.1	0.0	47.7	52.3
Iran, Islamic Rep. of	867	37.3	24.8	37.3	16.6	16.6	4.6	0.1	39.6	35.2
Ireland	676	45.6	19.5	45.6	9.2	24.7	1.0	0.0	42.9	48.2
Israel	785	40.3	19.3	40.3	10.0	26.3	3.5	0.5	40.5	40.1
Italy	652	32.0	30.6	32.0	11.5	23.5	2.3	0.2	24.7	38.4
Japan	685	66.4	13.1	66.4	8.9	11.0	0.5	0.0	65.1	67.9
Jordan	1109	38.5	21.3	38.5	16.6	19.7	3.6	0.3	39.6	37.4
Kazakhstan	696	59.8	20.1	59.8	8.6	9.5	1.7	0.2	64.6	55.2
Korea, Rep. of	755	62.0	17.1	62.0	9.2	11.5	0.2	0.0	61.7	62.3
Kuwait	665	33.3	25.6	33.3	16.3	21.6	2.0	1.1	30.8	35.6
Lebanon	555	31.3	16.0	31.3	16.5	21.8	10.8	3.5	29.9	32.8
Lithuania	614	31.5	29.5	31.5	7.2	30.8	1.1	0.0	32.9	29.9
Malaysia	1400	43.8	18.1	43.8	16.4	21.0	0.6	0.2	44.0	43.6
Malta	547	31.4	18.7	31.4	16.3	30.9	2.5	0.2	32.2	30.8
Morocco	1733	24.0	26.3	24.0	14.9	30.5	4.0	0.3	23.3	24.6
New Zealand	1206	25.4	18.7	25.4	13.4	41.1	0.6	0.8	19.2	31.2
Norway	676	29.1	22.7	29.1	8.5	38.0	1.4	0.3	24.7	33.9
Oman	1262	28.2	27.9	28.2	14.1	28.8	1.1	0.0	24.6	31.5
Qatar	771	42.4	19.7	42.4	12.8	23.3	1.5	0.3	42.6	42.1
Russian Federation	681	45.1	20.3	45.1	7.9	24.6	2.1	0.0	44.7	45.5
Saudi Arabia	545	31.6	22.7	31.6	15.5	28.0	2.2	0.0	26.3	36.8
Singapore	877	51.1	11.6	51.1	12.4	24.1	0.7	0.1	45.4	57.1
Slovenia	604	53.8	18.1	53.8	7.5	19.4	1.2	0.0	50.0	57.2
South Africa	1791	25.7	19.7	25.7	19.7	32.1	1.8	1.0	25.2	26.3
Sweden	589	29.9	18.1	29.9	12.6	35.8	3.7	0.0	26.8	32.7
Thailand	924	25.9	22.1	25.9	14.1	33.7	3.8	0.4	22.8	29.4
Turkey	871	21.7	27.3	21.7	15.7	34.4	0.8	0.1	18.3	25.3
United Arab Emirates	2572	38.7	23.2	38.7	11.4	23.5	2.9	0.2	37.2	40.4
United States	1470	26.8	26.1	26.8	11.9	34.0	0.9	0.3	21.0	32.5
International Avg (n=39)	36039	37.5	21.3	37.5	12.7	26.0	2.2	0.3	35.5	39.4
Buenos Aires, Argentina	463	21.2	23.8	21.2	10.6	19.7	18.3	6.5	22.3	20.1
Ontario, Canada	639	15.7	30.5	15.7	9.4	42.0	2.2	0.2	13.7	17.7
Quebec, Canada	558	32.8	23.0	32.8	9.3	32.8	1.0	1.1	27.9	38.4
Norway (8)	667	34.0	21.2	34.0	10.6	31.3	2.9	0.0	29.2	38.6
Abu Dhabi, UAE	693	30.5	26.3	30.5	11.4	27.9	3.8	0.2	30.2	30.8
Dubai, UAE	872	45.1	18.6	45.1	10.8	23.7	1.6	0.2	42.0	48.4
Florida, US	287	21.9	25.6	21.9	15.4	35.0	0.8	1.3	18.7	24.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_11A (S062211A): Earth Science / Applying Type: CR 1 Point
Label: Warmest and driest time of year

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	59.2	33.3	59.2	7.1	0.4	61.9	56.5
Bahrain	697	36.7	48.2	36.7	15.1	0.1	44.8	29.0
Botswana	846	27.0	59.7	27.0	13.1	0.2	28.2	25.6
Canada	1242	55.9	37.9	55.9	5.6	0.5	54.7	57.2
Chile	696	46.0	35.4	46.0	17.7	0.9	47.0	45.2
Chinese Taipei	813	61.2	34.2	61.2	4.6	0.0	60.4	62.0
Egypt	1127	9.7	63.8	9.7	26.0	0.5	10.5	8.8
England	692	62.0	33.0	62.0	4.6	0.3	66.3	57.5
Georgia	577	16.7	55.3	16.7	27.2	0.8	20.9	13.1
Hong Kong SAR	590	53.7	42.5	53.7	3.8	0.0	57.8	49.5
Hungary	703	50.6	42.6	50.6	6.8	0.0	52.5	48.7
Iran, Islamic Rep. of	867	29.0	56.2	29.0	14.7	0.1	31.1	27.1
Ireland	676	62.8	33.6	62.8	3.7	0.0	68.5	57.1
Israel	785	51.6	37.8	51.6	10.1	0.5	53.2	50.0
Italy	652	39.2	50.7	39.2	9.9	0.2	38.6	39.7
Japan	685	66.2	31.8	66.2	2.0	0.0	73.2	58.5
Jordan	1109	14.5	72.8	14.5	12.4	0.3	14.1	15.0
Kazakhstan	696	18.3	54.6	18.3	26.9	0.2	18.5	18.0
Korea, Rep. of	755	52.4	45.0	52.4	2.7	0.0	56.4	48.4
Kuwait	665	18.5	52.7	18.5	27.7	1.1	22.2	14.7
Lebanon	556	27.3	44.4	27.3	24.9	3.5	27.6	26.9
Lithuania	614	57.2	37.6	57.2	5.2	0.0	58.0	56.3
Malaysia	1400	43.6	50.3	43.6	5.9	0.2	47.0	40.3
Malta	547	46.6	43.6	46.6	9.6	0.2	50.1	43.5
Morocco	1734	27.0	54.6	27.0	18.1	0.3	27.9	26.3
New Zealand	1206	56.9	34.3	56.9	8.0	0.8	59.8	54.3
Norway	676	55.9	38.8	55.9	4.9	0.3	61.0	50.5
Oman	1261	22.0	61.9	22.0	16.1	0.0	29.1	15.4
Qatar	771	34.4	47.1	34.4	18.2	0.3	37.0	31.9
Russian Federation	681	39.2	46.1	39.2	14.7	0.0	39.6	38.8
Saudi Arabia	544	17.0	62.8	17.0	20.2	0.0	17.4	16.7
Singapore	877	71.4	25.0	71.4	3.5	0.1	74.3	68.3
Slovenia	604	62.9	35.4	62.9	1.8	0.0	65.8	60.2
South Africa	1791	18.4	63.8	18.4	16.7	1.1	18.6	18.2
Sweden	589	56.9	35.5	56.9	7.6	0.0	54.1	59.4
Thailand	924	31.6	43.9	31.6	24.1	0.4	37.4	25.1
Turkey	871	29.2	55.1	29.2	15.6	0.1	32.3	26.1
United Arab Emirates	2572	35.4	50.5	35.4	14.0	0.2	39.2	31.3
United States	1470	51.0	47.1	51.0	1.5	0.4	54.0	47.8
International Avg (n=39)	36041	41.4	46.1	41.4	12.1	0.4	43.9	39.0
Buenos Aires, Argentina	472	27.7	40.2	27.7	25.5	6.6	31.1	24.5
Ontario, Canada	639	56.9	37.0	56.9	5.8	0.2	56.0	57.8
Quebec, Canada	559	56.3	38.1	56.3	4.5	1.1	55.9	56.9
Norway (8)	667	55.0	37.5	55.0	7.5	0.0	59.4	50.8
Abu Dhabi, UAE	693	32.5	49.4	32.5	17.9	0.2	38.4	26.5
Dubai, UAE	872	48.1	44.8	48.1	7.0	0.2	49.5	46.6
Florida, US	287	43.1	53.5	43.1	1.9	1.5	46.3	40.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_11B (S062211B): Earth Science / Reasoning Type: CR 1 Point
Label: Climate data are wrong

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	7.6	86.7	7.6	5.3	0.4	7.4	7.8
Bahrain	697	10.9	85.4	10.9	3.5	0.2	15.3	6.7
Botswana	845	3.4	94.7	3.4	1.3	0.6	5.1	1.5
Canada	1242	11.0	83.5	11.0	4.9	0.6	12.7	9.3
Chile	696	3.9	88.7	3.9	6.6	0.9	4.4	3.5
Chinese Taipei	813	7.7	90.4	7.7	1.8	0.0	6.9	8.5
Egypt	1127	3.3	92.4	3.3	3.8	0.5	3.6	3.0
England	692	22.1	72.6	22.1	5.0	0.3	23.5	20.6
Georgia	577	1.3	90.5	1.3	7.4	0.8	1.5	1.2
Hong Kong SAR	590	10.9	87.7	10.9	1.4	0.0	11.5	10.2
Hungary	703	5.0	92.0	5.0	3.0	0.0	5.2	4.9
Iran, Islamic Rep. of	867	2.6	92.3	2.6	4.9	0.2	2.6	2.5
Ireland	676	9.5	87.4	9.5	3.1	0.0	8.7	10.3
Israel	785	8.2	86.2	8.2	4.8	0.9	10.6	5.9
Italy	652	4.4	84.3	4.4	11.1	0.2	4.1	4.7
Japan	685	14.1	84.5	14.1	1.4	0.0	13.4	14.9
Jordan	1109	2.0	95.2	2.0	2.4	0.4	2.9	1.2
Kazakhstan	696	15.4	71.6	15.4	12.6	0.3	16.2	14.7
Korea, Rep. of	755	11.9	86.7	11.9	1.4	0.0	12.9	11.0
Kuwait	665	7.3	87.1	7.3	4.4	1.2	12.3	2.1
Lebanon	556	1.9	82.9	1.9	11.7	3.5	1.4	2.4
Lithuania	614	13.6	83.6	13.6	2.8	0.0	17.4	9.6
Malaysia	1400	29.3	68.3	29.3	2.1	0.4	31.5	27.2
Malta	547	5.0	92.1	5.0	2.7	0.2	4.5	5.5
Morocco	1734	7.8	86.1	7.8	5.7	0.3	9.6	6.5
New Zealand	1206	7.9	87.2	7.9	4.1	0.8	7.9	7.9
Norway	676	20.7	77.0	20.7	1.9	0.4	20.6	20.7
Oman	1262	3.8	93.6	3.8	2.6	0.1	5.2	2.4
Qatar	771	6.8	90.2	6.8	2.8	0.3	6.2	7.3
Russian Federation	681	12.6	79.3	12.6	7.9	0.2	14.4	10.7
Saudi Arabia	544	6.6	91.1	6.6	2.3	0.0	8.4	4.9
Singapore	877	18.8	80.5	18.8	0.6	0.1	15.9	22.0
Slovenia	604	19.5	78.9	19.5	1.7	0.0	20.7	18.4
South Africa	1791	2.9	93.6	2.9	2.2	1.3	3.1	2.6
Sweden	589	12.7	83.5	12.7	3.7	0.1	9.8	15.4
Thailand	924	0.0	91.3	0.0	8.2	0.4	0.0	0.0
Turkey	871	2.2	95.9	2.2	1.8	0.1	2.2	2.2
United Arab Emirates	2572	5.4	89.9	5.4	4.4	0.2	6.1	4.8
United States	1470	5.6	92.6	5.6	1.4	0.4	6.1	5.2
International Avg (n=39)	36041	8.9	86.6	8.9	4.1	0.4	9.5	8.2
Buenos Aires, Argentina	472	4.2	70.1	4.2	18.9	6.8	4.5	4.0
Ontario, Canada	639	11.8	82.5	11.8	5.5	0.2	15.2	8.5
Quebec, Canada	559	9.1	86.2	9.1	3.6	1.1	8.5	9.8
Norway (8)	667	12.0	82.6	12.0	5.2	0.1	14.2	9.9
Abu Dhabi, UAE	693	5.3	88.6	5.3	5.9	0.2	7.8	2.6
Dubai, UAE	872	7.3	89.6	7.3	2.9	0.2	6.7	8.0
Florida, US	287	6.9	90.2	6.9	1.5	1.5	9.8	4.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_13 (S062033): Physics / Reasoning Type: CR 1 Point
Label: Pressure applied to pistons

COUNTRY	N	10 %	11 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	23.1	6.8	67.8	29.8	1.9	0.4	25.7	34.1
Bahrain	697	16.5	13.3	68.8	29.8	1.0	0.4	37.0	22.9
Botswana	850	7.4	3.9	86.3	11.4	1.5	0.8	9.8	13.1
Canada	1242	22.5	13.8	60.5	36.3	2.5	0.7	37.8	34.9
Chile	696	10.4	4.9	78.0	15.3	5.4	1.3	14.6	15.9
Chinese Taipei	813	44.5	3.0	52.3	47.5	0.2	0.1	46.4	48.4
Egypt	1127	6.6	4.7	84.6	11.2	3.6	0.6	14.8	7.2
England	692	32.4	12.7	52.0	45.1	2.6	0.3	46.2	43.8
Georgia	577	10.6	1.4	82.8	12.1	4.3	0.8	12.8	11.4
Hong Kong SAR	590	21.1	7.0	71.0	28.1	0.9	0.0	25.8	30.4
Hungary	703	29.7	17.9	51.5	47.6	0.9	0.0	43.3	51.9
Iran, Islamic Rep. of	867	13.7	14.0	67.7	27.7	4.0	0.5	28.6	26.9
Ireland	676	29.7	9.3	60.0	39.0	1.0	0.0	38.5	39.6
Israel	785	28.6	20.4	47.5	49.0	2.4	1.2	55.7	42.5
Italy	652	18.9	6.0	70.7	24.8	4.3	0.2	20.4	28.8
Japan	685	27.3	1.6	70.6	28.9	0.5	0.0	26.9	31.1
Jordan	1109	14.5	0.3	83.5	14.8	1.2	0.5	16.7	12.9
Kazakhstan	696	48.4	0.2	40.6	48.7	10.4	0.3	50.6	46.7
Korea, Rep. of	755	45.6	15.7	37.7	61.3	1.0	0.0	65.0	57.7
Kuwait	664	15.4	1.8	79.8	17.2	1.5	1.5	21.3	13.0
Lebanon	556	13.3	8.2	69.4	21.5	5.4	3.7	21.3	21.7
Lithuania	614	30.7	14.0	53.8	44.7	1.2	0.3	44.5	44.9
Malaysia	1400	17.7	2.1	77.0	19.9	2.8	0.4	17.6	22.0
Malta	547	27.1	9.7	61.4	36.8	1.6	0.2	36.7	36.9
Morocco	1734	23.6	2.4	70.1	26.1	3.4	0.4	27.3	25.1
New Zealand	1206	27.2	11.0	59.4	38.2	1.5	0.9	40.6	36.0
Norway	676	23.3	9.9	65.7	33.2	0.7	0.4	32.5	34.0
Oman	1262	16.7	6.0	75.4	22.7	1.8	0.1	28.3	17.4
Qatar	771	20.3	4.9	72.6	25.3	1.7	0.4	28.7	21.9
Russian Federation	681	21.2	20.5	55.4	41.7	2.6	0.3	36.5	47.1
Saudi Arabia	544	16.2	5.6	77.1	21.8	1.1	0.0	29.3	14.5
Singapore	877	54.6	21.8	23.4	76.4	0.1	0.1	77.6	75.2
Slovenia	604	52.3	1.7	45.3	54.0	0.7	0.0	53.4	54.5
South Africa	1791	5.5	2.0	88.7	7.6	2.1	1.6	7.9	7.2
Sweden	589	27.0	22.3	48.2	49.3	2.2	0.3	52.9	46.0
Thailand	924	2.3	1.3	90.6	3.6	5.4	0.4	3.7	3.5
Turkey	871	35.3	4.8	58.6	40.0	1.3	0.1	43.3	36.6
United Arab Emirates	2572	14.1	9.9	73.6	24.0	2.1	0.3	24.4	23.5
United States	1470	19.8	12.4	65.4	32.2	1.7	0.7	32.7	31.5
International Avg (n=39)	36045	23.5	8.4	65.3	31.9	2.3	0.5	32.8	31.1
Buenos Aires, Argentina	472	4.2	1.9	74.9	6.0	11.6	7.5	7.0	5.1
Ontario, Canada	639	22.0	18.4	56.1	40.3	3.2	0.5	41.9	38.7
Quebec, Canada	559	20.9	6.3	70.4	27.2	1.4	1.1	25.0	29.6
Norway (8)	667	21.3	8.1	66.1	29.4	4.4	0.1	28.3	30.4
Abu Dhabi, UAE	693	12.2	7.4	77.2	19.7	3.0	0.2	22.5	16.7
Dubai, UAE	872	18.6	14.6	65.4	33.3	1.2	0.2	32.9	33.7
Florida, US	287	20.0	14.7	62.6	34.6	0.9	1.8	34.1	35.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_14 (S062037): Physics / Applying Type: MC Key: A
Label: Toy car powered by battery

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	68.3	68.3	3.0	4.7	22.2	1.4	0.4	66.3	70.3
Bahrain	697	52.2	52.2	3.4	4.9	38.4	0.8	0.4	53.8	50.6
Botswana	850	46.4	46.4	11.4	22.2	17.6	1.2	1.2	46.9	45.9
Canada	1239	50.6	50.6	7.3	6.0	33.0	2.0	1.1	48.1	53.1
Chile	696	43.2	43.2	11.2	10.1	32.4	1.6	1.5	36.9	48.4
Chinese Taipei	813	51.6	51.6	1.8	1.1	45.0	0.3	0.1	49.0	53.9
Egypt	1127	44.5	44.5	9.4	4.3	40.3	0.6	0.9	43.1	46.1
England	692	66.8	66.8	4.6	3.8	22.7	1.4	0.7	64.7	69.0
Georgia	577	42.5	42.5	5.6	5.1	44.2	1.1	1.6	40.5	44.1
Hong Kong SAR	590	94.6	94.6	0.4	1.8	3.2	0.0	0.0	94.5	94.7
Hungary	703	47.2	47.2	3.6	4.0	44.6	0.6	0.0	48.7	45.7
Iran, Islamic Rep. of	867	66.6	66.6	4.6	4.3	23.2	0.7	0.6	65.3	67.7
Ireland	676	64.1	64.1	2.1	7.2	25.9	0.6	0.2	61.7	66.4
Israel	785	71.1	71.1	2.8	1.3	22.9	0.7	1.3	72.5	69.6
Italy	652	50.2	50.2	6.4	7.6	32.7	2.9	0.2	48.3	51.9
Japan	685	60.2	60.2	2.4	1.9	35.4	0.1	0.0	60.4	60.0
Jordan	1109	41.7	41.7	7.3	4.9	43.8	1.7	0.6	43.7	39.8
Kazakhstan	696	43.2	43.2	5.0	7.6	42.0	1.4	0.8	43.9	42.5
Korea, Rep. of	755	70.1	70.1	1.9	1.9	25.7	0.3	0.0	70.1	70.2
Kuwait	665	47.3	47.3	4.6	6.4	37.9	2.3	1.5	49.2	45.1
Lebanon	554	52.3	52.3	6.7	12.3	19.9	4.9	3.9	50.9	53.6
Lithuania	614	57.7	57.7	5.0	6.2	30.6	0.2	0.3	54.1	61.3
Malaysia	1400	55.4	55.4	12.1	11.2	20.8	0.0	0.5	53.2	57.5
Malta	547	58.3	58.3	7.1	7.4	25.2	1.4	0.6	57.7	58.9
Morocco	1733	37.6	37.6	12.8	7.5	40.4	1.2	0.5	33.4	40.8
New Zealand	1206	68.9	68.9	2.8	5.7	21.0	0.7	1.0	68.3	69.4
Norway	676	50.6	50.6	9.0	8.2	29.7	1.9	0.6	41.5	60.4
Oman	1262	44.9	44.9	5.7	3.4	44.9	0.9	0.2	42.5	47.1
Qatar	771	53.9	53.9	7.1	5.4	32.4	0.6	0.6	49.9	57.8
Russian Federation	681	43.3	43.3	8.3	4.0	40.1	3.6	0.7	34.4	52.6
Saudi Arabia	544	40.0	40.0	3.5	3.8	50.2	2.4	0.1	37.2	42.7
Singapore	877	87.5	87.5	1.4	2.0	8.9	0.1	0.1	87.4	87.7
Slovenia	604	59.8	59.8	4.9	7.7	25.6	2.0	0.0	58.6	60.9
South Africa	1791	39.7	39.7	12.6	27.7	16.7	1.1	2.2	39.6	39.8
Sweden	589	57.1	57.1	1.8	2.2	34.9	3.7	0.3	52.9	60.9
Thailand	924	33.6	33.6	13.9	8.4	42.7	0.7	0.5	35.1	31.9
Turkey	871	60.6	60.6	7.5	6.7	24.7	0.3	0.1	59.4	61.9
United Arab Emirates	2572	48.8	48.8	7.5	4.5	37.1	1.7	0.4	47.3	50.3
United States	1470	63.3	63.3	3.5	2.8	29.2	0.6	0.7	63.4	63.1
International Avg (n=39)	36040	54.8	54.8	5.9	6.4	31.0	1.3	0.7	53.2	56.3
Buenos Aires, Argentina	467	37.0	37.0	11.9	9.6	22.1	10.8	8.6	37.5	36.6
Ontario, Canada	638	55.3	55.3	5.4	4.0	32.1	2.1	1.1	53.3	57.4
Quebec, Canada	557	46.3	46.3	10.5	8.9	32.3	0.8	1.1	38.9	54.7
Norway (8)	667	44.4	44.4	6.1	10.8	35.4	2.5	0.8	43.0	45.7
Abu Dhabi, UAE	693	49.0	49.0	7.5	4.4	37.4	1.5	0.2	47.8	50.2
Dubai, UAE	872	53.2	53.2	7.0	4.2	33.8	1.3	0.6	52.3	54.1
Florida, US	287	66.3	66.3	1.9	3.8	23.9	2.2	1.8	66.9	65.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_15 (S062242): Physics / Applying Type: CR 1 Point
Label: Waste removed by electromagnet (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1483	84.5	11.4	84.5	3.1	0.9	83.6	85.4
Bahrain	697	75.6	15.7	75.6	8.3	0.4	84.6	66.9
Botswana	850	49.0	30.1	49.0	18.8	2.1	51.4	46.4
Canada	1237	85.1	11.4	85.1	1.6	1.9	84.4	85.8
Chile	698	81.2	10.8	81.2	6.2	1.9	80.9	81.4
Chinese Taipei	814	94.5	4.3	94.5	0.9	0.3	93.5	95.4
Egypt	1127	53.4	25.2	53.4	20.3	1.1	53.0	53.8
England	692	82.4	13.6	82.4	2.9	1.1	83.2	81.5
Georgia	577	56.8	30.4	56.8	11.1	1.8	55.5	57.8
Hong Kong SAR	590	86.7	11.9	86.7	1.4	0.0	87.6	85.9
Hungary	704	83.0	15.6	83.0	1.4	0.0	78.8	87.1
Iran, Islamic Rep. of	868	82.6	15.0	82.6	1.8	0.7	84.7	80.7
Ireland	676	86.4	10.6	86.4	2.8	0.3	87.4	85.4
Israel	785	77.0	15.5	77.0	5.9	1.6	82.0	72.2
Italy	653	80.7	16.5	80.7	2.4	0.4	78.9	82.2
Japan	685	69.2	28.5	69.2	2.3	0.0	67.9	70.6
Jordan	1109	74.2	16.2	74.2	8.9	0.7	81.2	67.1
Kazakhstan	696	74.9	21.0	74.9	3.3	0.8	73.5	76.3
Korea, Rep. of	756	86.9	10.9	86.9	1.9	0.3	88.5	85.3
Kuwait	665	67.0	27.5	67.0	3.6	1.9	75.2	58.5
Lebanon	556	49.8	25.8	49.8	18.7	5.6	49.0	50.7
Lithuania	614	84.4	13.5	84.4	1.8	0.3	84.3	84.6
Malaysia	1400	80.2	14.7	80.2	4.6	0.5	82.0	78.5
Malta	547	79.2	14.3	79.2	5.2	1.3	81.1	77.6
Morocco	1732	60.3	26.5	60.3	12.4	0.8	61.3	59.5
New Zealand	1206	83.6	10.8	83.6	4.1	1.4	86.6	80.9
Norway	678	85.6	11.3	85.6	2.1	1.0	83.6	87.7
Oman	1260	71.4	21.7	71.4	6.5	0.4	79.7	63.6
Qatar	771	78.4	8.7	78.4	12.2	0.6	87.1	70.1
Russian Federation	681	87.0	9.7	87.0	1.7	1.6	84.2	90.0
Saudi Arabia	541	52.9	38.2	52.9	7.7	1.2	58.3	47.6
Singapore	878	93.6	5.5	93.6	0.8	0.1	95.3	91.8
Slovenia	604	83.8	15.0	83.8	0.9	0.3	83.6	84.0
South Africa	1791	52.4	29.7	52.4	14.9	3.0	51.0	54.0
Sweden	589	81.0	16.3	81.0	2.3	0.4	78.5	83.3
Thailand	915	86.0	6.9	86.0	6.3	0.8	88.5	83.2
Turkey	871	83.1	12.6	83.1	4.2	0.1	84.6	81.6
United Arab Emirates	2572	76.0	18.2	76.0	5.1	0.7	80.6	71.1
United States	1470	88.1	9.6	88.1	1.3	1.0	88.5	87.8
International Avg (n=39)	36038	76.6	16.7	76.6	5.7	1.0	78.0	75.2
Buenos Aires, Argentina	468	59.4	13.1	59.4	17.0	10.4	60.8	58.2
Ontario, Canada	634	82.7	14.1	82.7	1.5	1.7	83.0	82.5
Quebec, Canada	559	89.3	7.5	89.3	2.0	1.1	86.5	92.4
Norway (8)	669	83.0	14.0	83.0	2.0	1.0	86.1	80.0
Abu Dhabi, UAE	693	70.2	20.2	70.2	8.9	0.7	80.9	59.3
Dubai, UAE	872	83.7	14.1	83.7	1.5	0.7	84.8	82.6
Florida, US	287	82.2	12.1	82.2	2.0	3.7	82.3	82.1

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S12_15A (S062242A): Physics / Applying Type: MC Key: A
Label: Waste removed by electromagnet: cans

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	90.3	90.3	4.0	4.8	0.9	89.2	91.4
Bahrain	697	80.4	80.4	8.1	11.1	0.4	86.9	74.2
Botswana	850	59.5	59.5	9.8	28.7	2.1	62.7	56.0
Canada	1240	89.5	89.5	6.2	2.4	1.9	88.2	90.8
Chile	696	86.8	86.8	4.3	7.0	1.9	86.7	86.8
Chinese Taipei	813	97.0	97.0	2.0	0.8	0.3	96.0	97.8
Egypt	1127	62.3	62.3	9.5	27.2	1.1	61.5	63.1
England	692	86.5	86.5	9.0	3.5	1.1	86.7	86.2
Georgia	577	62.0	62.0	21.1	15.2	1.8	59.9	63.6
Hong Kong SAR	590	89.6	89.6	8.4	2.0	0.0	89.7	89.4
Hungary	703	88.1	88.1	10.5	1.4	0.0	84.5	91.7
Iran, Islamic Rep. of	867	87.4	87.4	6.9	5.1	0.7	88.0	86.8
Ireland	676	90.6	90.6	5.6	3.6	0.3	90.0	91.1
Israel	785	82.6	82.6	9.1	6.7	1.6	87.5	77.9
Italy	652	86.6	86.6	6.9	6.0	0.4	85.2	87.8
Japan	685	71.1	71.1	26.2	2.7	0.0	68.9	73.4
Jordan	1109	80.5	80.5	7.2	11.7	0.7	84.9	76.0
Kazakhstan	696	79.6	79.6	14.6	4.9	0.8	77.7	81.6
Korea, Rep. of	755	91.1	91.1	2.8	5.8	0.3	91.5	90.8
Kuwait	665	79.1	79.1	12.7	6.3	1.9	82.6	75.0
Lebanon	556	61.0	61.0	13.5	19.8	5.6	60.2	61.9
Lithuania	614	88.0	88.0	9.6	2.1	0.3	87.7	88.2
Malaysia	1400	85.0	85.0	7.2	7.2	0.5	85.4	84.7
Malta	547	84.7	84.7	7.6	6.5	1.3	85.9	83.6
Morocco	1732	69.4	69.4	12.9	16.8	0.8	68.1	70.5
New Zealand	1206	87.6	87.6	5.7	5.3	1.4	89.4	86.0
Norway	676	91.3	91.3	4.4	3.2	1.0	90.0	92.8
Oman	1261	82.8	82.8	6.3	10.5	0.4	87.5	78.5
Qatar	771	82.1	82.1	4.1	13.1	0.6	89.9	74.6
Russian Federation	681	90.4	90.4	5.3	2.8	1.6	87.3	93.5
Saudi Arabia	544	62.6	62.6	22.5	13.7	1.2	64.6	60.7
Singapore	877	95.5	95.5	2.0	2.4	0.1	96.7	94.2
Slovenia	604	86.9	86.9	11.7	1.1	0.3	85.4	88.2
South Africa	1791	64.1	64.1	10.9	22.0	3.0	63.2	65.1
Sweden	589	86.7	86.7	7.6	5.3	0.4	84.2	89.0
Thailand	920	89.6	89.6	2.1	7.5	0.8	90.1	89.1
Turkey	871	87.3	87.3	7.4	5.2	0.1	88.3	86.3
United Arab Emirates	2572	82.5	82.5	7.8	9.0	0.7	85.6	79.2
United States	1470	91.8	91.8	5.2	2.0	1.0	91.9	91.7
International Avg (n=39)	36037	82.3	82.3	8.7	8.0	1.0	82.8	81.8
Buenos Aires, Argentina	468	67.3	67.3	5.0	17.2	10.4	68.8	65.9
Ontario, Canada	638	88.4	88.4	7.4	2.6	1.7	88.5	88.3
Quebec, Canada	558	91.5	91.5	4.7	2.7	1.1	87.9	95.4
Norway (8)	667	89.6	89.6	7.1	2.3	1.0	89.6	89.7
Abu Dhabi, UAE	693	78.2	78.2	6.3	14.9	0.7	85.9	70.2
Dubai, UAE	872	88.3	88.3	7.2	3.8	0.7	88.7	87.9
Florida, US	287	87.7	87.7	5.8	2.8	3.7	88.8	86.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_15B (S062242B): Physics / Applying Type: MC Key: B
Label: Waste removed by electromagnet: cups

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	91.1	1.9	91.1	6.1	0.9	90.7	91.4
Bahrain	697	83.4	5.2	83.4	11.0	0.4	90.7	76.4
Botswana	850	61.5	7.3	61.5	29.1	2.1	65.4	57.4
Canada	1239	93.9	1.6	93.9	2.5	2.0	94.2	93.6
Chile	696	86.5	3.5	86.5	8.1	1.9	87.2	85.8
Chinese Taipei	813	96.5	2.0	96.5	1.2	0.3	97.0	96.1
Egypt	1127	65.2	6.7	65.2	27.1	1.1	66.8	63.4
England	692	94.0	0.9	94.0	4.0	1.1	94.9	93.0
Georgia	577	80.1	3.9	80.1	14.3	1.8	84.8	76.1
Hong Kong SAR	590	95.4	2.5	95.4	2.1	0.0	96.4	94.3
Hungary	703	93.3	4.3	93.3	2.4	0.0	92.2	94.3
Iran, Islamic Rep. of	867	90.7	3.1	90.7	5.5	0.7	93.0	88.6
Ireland	676	93.4	2.2	93.4	4.1	0.3	95.3	91.5
Israel	785	87.7	3.2	87.7	7.5	1.6	93.3	82.4
Italy	652	92.1	3.6	92.1	3.9	0.4	91.4	92.7
Japan	685	95.2	1.6	95.2	3.2	0.0	97.1	93.2
Jordan	1109	82.4	3.9	82.4	13.0	0.7	90.3	74.3
Kazakhstan	696	90.2	3.2	90.2	5.7	0.8	89.2	91.2
Korea, Rep. of	755	89.5	4.1	89.5	6.1	0.3	92.4	86.7
Kuwait	665	83.8	7.4	83.8	6.9	1.9	89.9	77.4
Lebanon	556	63.7	9.3	63.7	21.4	5.6	64.2	63.1
Lithuania	614	93.6	3.4	93.6	2.7	0.3	94.5	92.6
Malaysia	1400	87.0	4.7	87.0	7.8	0.5	88.1	86.0
Malta	547	85.5	5.6	85.5	7.6	1.3	87.8	83.5
Morocco	1732	71.9	11.2	71.9	16.2	0.8	71.7	72.0
New Zealand	1206	89.8	2.8	89.8	6.0	1.4	92.9	87.0
Norway	676	93.4	2.1	93.4	3.4	1.0	94.1	92.7
Oman	1261	81.9	6.2	81.9	11.5	0.4	88.8	75.5
Qatar	771	82.3	3.7	82.3	13.4	0.6	91.0	73.9
Russian Federation	681	93.5	1.9	93.5	3.1	1.6	92.3	94.6
Saudi Arabia	544	77.0	7.6	77.0	14.1	1.4	82.7	71.4
Singapore	877	97.6	0.5	97.6	1.8	0.1	98.9	96.2
Slovenia	604	97.0	1.2	97.0	1.6	0.3	99.0	95.2
South Africa	1791	62.8	11.3	62.8	22.9	3.0	63.1	62.5
Sweden	589	92.6	1.6	92.6	5.4	0.4	91.8	93.3
Thailand	921	89.3	1.3	89.3	8.6	0.8	91.3	87.0
Turkey	871	89.9	4.9	89.9	5.1	0.1	91.3	88.5
United Arab Emirates	2572	86.1	4.4	86.1	8.8	0.7	90.8	81.2
United States	1470	93.2	3.0	93.2	2.9	1.0	94.0	92.3
International Avg (n=39)	36037	86.5	4.1	86.5	8.4	1.0	88.7	84.3
Buenos Aires, Argentina	467	67.1	5.0	67.1	17.4	10.5	69.2	65.1
Ontario, Canada	638	94.2	1.3	94.2	2.7	1.8	95.2	93.1
Quebec, Canada	557	94.7	1.5	94.7	2.7	1.1	93.6	95.9
Norway (8)	667	91.8	1.4	91.8	5.8	1.0	93.2	90.3
Abu Dhabi, UAE	693	80.4	4.7	80.4	14.2	0.7	88.2	72.3
Dubai, UAE	872	93.3	2.5	93.3	3.5	0.7	95.1	91.3
Florida, US	287	89.8	2.6	89.8	3.9	3.7	92.6	87.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_15D (S062242D): Physics / Applying Type: MC Key: B
Label: Waste removed by electromagnet: paper

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	92.6	1.8	92.6	4.7	0.9	93.3	91.9
Bahrain	697	83.6	4.2	83.6	11.8	0.4	90.4	77.0
Botswana	850	60.8	7.1	60.8	30.1	2.1	65.3	56.0
Canada	1241	92.7	2.7	92.7	2.6	2.0	93.1	92.3
Chile	696	86.9	4.3	86.9	6.9	1.9	86.9	86.8
Chinese Taipei	813	96.6	1.9	96.6	1.2	0.3	96.7	96.6
Egypt	1127	63.9	6.8	63.9	28.1	1.1	64.4	63.3
England	692	93.4	0.9	93.4	4.6	1.1	94.2	92.5
Georgia	577	79.2	4.1	79.2	15.0	1.8	82.4	76.5
Hong Kong SAR	590	95.8	1.9	95.8	2.3	0.0	96.0	95.6
Hungary	703	93.2	4.7	93.2	2.1	0.0	93.5	92.8
Iran, Islamic Rep. of	867	91.2	2.7	91.2	5.5	0.7	92.8	89.7
Ireland	676	92.4	2.5	92.4	4.8	0.3	94.5	90.3
Israel	785	87.4	3.7	87.4	7.2	1.6	93.8	81.4
Italy	652	90.7	4.2	90.7	4.6	0.4	90.8	90.7
Japan	685	95.8	1.1	95.8	3.1	0.0	97.3	94.1
Jordan	1109	81.0	4.7	81.0	13.7	0.7	89.2	72.7
Kazakhstan	696	90.5	3.4	90.5	5.3	0.8	90.0	91.0
Korea, Rep. of	755	92.5	2.7	92.5	4.5	0.3	93.5	91.6
Kuwait	665	81.1	10.2	81.1	6.9	1.9	89.5	72.0
Lebanon	556	64.2	9.3	64.2	20.9	5.6	66.0	62.3
Lithuania	614	93.6	3.0	93.6	3.0	0.3	95.7	91.5
Malaysia	1400	87.1	5.0	87.1	7.3	0.5	88.5	85.8
Malta	547	84.5	6.5	84.5	7.8	1.3	85.8	83.3
Morocco	1732	74.7	8.0	74.7	16.4	0.8	76.2	73.6
New Zealand	1206	89.9	2.8	89.9	5.8	1.4	92.9	87.2
Norway	676	92.4	2.2	92.4	4.3	1.0	92.1	92.8
Oman	1261	80.1	6.1	80.1	13.3	0.4	88.0	72.8
Qatar	771	82.6	3.1	82.6	13.7	0.6	90.7	74.9
Russian Federation	681	92.9	1.9	92.9	3.6	1.6	91.5	94.5
Saudi Arabia	544	74.4	9.2	74.4	15.0	1.4	81.9	67.2
Singapore	877	96.4	1.2	96.4	2.4	0.1	97.8	94.8
Slovenia	604	96.4	1.1	96.4	2.3	0.3	98.7	94.4
South Africa	1791	64.0	8.9	64.0	24.1	3.0	64.0	63.9
Sweden	589	91.9	2.5	91.9	5.2	0.4	89.8	93.8
Thailand	921	88.6	2.2	88.6	8.3	0.9	91.3	85.5
Turkey	871	90.0	4.6	90.0	5.3	0.1	91.2	88.6
United Arab Emirates	2572	86.3	4.8	86.3	8.2	0.7	91.2	81.1
United States	1470	92.7	3.4	92.7	2.9	1.0	93.9	91.6
International Avg (n=39)	36039	86.3	4.1	86.3	8.6	1.0	88.6	84.0
Buenos Aires, Argentina	467	66.2	6.0	66.2	17.3	10.5	68.7	63.9
Ontario, Canada	639	92.3	3.0	92.3	3.0	1.8	93.5	91.1
Quebec, Canada	558	95.1	1.8	95.1	2.0	1.1	93.6	96.7
Norway (8)	667	93.1	1.0	93.1	4.9	1.0	94.6	91.5
Abu Dhabi, UAE	693	81.2	5.1	81.2	13.0	0.7	90.3	71.9
Dubai, UAE	872	91.7	4.3	91.7	3.2	0.7	93.5	89.8
Florida, US	287	87.8	4.4	87.8	4.1	3.7	88.7	86.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S12_15E (S062242E): Physics / Applying Type: MC Key: A
Label: Waste removed by electromagnet: nails

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	90.1	90.1	3.4	5.6	0.9	90.5	89.8
Bahrain	697	86.0	86.0	3.5	10.1	0.4	91.7	80.4
Botswana	850	64.2	64.2	6.9	26.7	2.1	69.3	58.9
Canada	1237	92.1	92.1	3.4	2.6	1.9	92.8	91.4
Chile	696	86.0	86.0	5.2	7.0	1.9	86.6	85.4
Chinese Taipei	813	96.6	96.6	2.3	0.9	0.3	96.2	96.9
Egypt	1127	66.6	66.6	6.3	26.0	1.1	67.5	65.5
England	692	91.9	91.9	3.2	3.8	1.1	92.4	91.3
Georgia	577	80.3	80.3	4.2	13.7	1.8	84.8	76.6
Hong Kong SAR	590	95.6	95.6	1.8	2.5	0.0	96.0	95.2
Hungary	703	92.7	92.7	5.5	1.8	0.0	93.3	92.2
Iran, Islamic Rep. of	867	92.6	92.6	3.3	3.4	0.7	94.3	91.0
Ireland	676	92.0	92.0	3.1	4.6	0.3	93.5	90.6
Israel	785	87.0	87.0	4.8	6.6	1.6	92.2	82.0
Italy	652	88.7	88.7	5.1	5.8	0.4	88.9	88.6
Japan	685	96.2	96.2	1.1	2.7	0.0	96.8	95.5
Jordan	1109	82.7	82.7	3.1	13.4	0.7	90.6	74.8
Kazakhstan	696	91.0	91.0	4.1	4.1	0.8	90.3	91.7
Korea, Rep. of	755	91.3	91.3	3.3	5.1	0.3	92.8	89.8
Kuwait	665	84.0	84.0	7.8	6.3	1.9	91.0	76.6
Lebanon	556	62.0	62.0	12.2	20.1	5.6	63.7	60.4
Lithuania	614	94.4	94.4	3.1	2.1	0.3	94.9	94.0
Malaysia	1400	87.5	87.5	5.0	7.0	0.5	88.1	87.0
Malta	547	85.7	85.7	5.9	7.1	1.3	88.1	83.6
Morocco	1732	74.4	74.4	9.0	15.8	0.8	75.7	73.3
New Zealand	1206	89.8	89.8	3.1	5.7	1.4	92.7	87.0
Norway	676	92.1	92.1	3.9	2.9	1.0	92.8	91.4
Oman	1260	82.8	82.8	5.8	11.0	0.4	89.5	76.5
Qatar	771	81.6	81.6	3.5	14.3	0.6	91.2	72.4
Russian Federation	681	93.5	93.5	2.0	2.9	1.6	92.1	95.0
Saudi Arabia	541	78.0	78.0	9.8	11.0	1.2	83.9	72.2
Singapore	877	96.6	96.6	1.2	2.1	0.1	98.2	94.9
Slovenia	604	97.2	97.2	1.6	0.9	0.3	98.1	96.4
South Africa	1791	64.4	64.4	9.5	23.2	3.0	65.3	63.2
Sweden	589	90.2	90.2	3.6	5.9	0.4	89.0	91.2
Thailand	918	89.6	89.6	2.0	7.4	0.9	92.8	86.0
Turkey	871	91.1	91.1	3.5	5.3	0.1	92.0	90.2
United Arab Emirates	2572	86.7	86.7	4.3	8.2	0.7	91.2	82.0
United States	1470	93.7	93.7	3.3	2.1	1.0	94.9	92.4
International Avg (n=39)	36028	86.6	86.6	4.5	7.9	1.0	88.9	84.4
Buenos Aires, Argentina	467	65.0	65.0	7.3	17.2	10.5	66.9	63.3
Ontario, Canada	635	91.5	91.5	4.0	2.8	1.7	93.3	89.7
Quebec, Canada	558	94.6	94.6	1.9	2.4	1.1	92.9	96.5
Norway (8)	667	88.9	88.9	3.1	6.9	1.0	92.2	85.8
Abu Dhabi, UAE	693	81.1	81.1	5.0	13.2	0.7	89.5	72.5
Dubai, UAE	872	92.8	92.8	3.7	2.8	0.7	93.1	92.6
Florida, US	287	88.2	88.2	3.4	4.6	3.7	90.7	85.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_01 (S052006): Biology / Applying Type: CR 2 Points
Label: Penguin behavior and survival

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	47.3	40.6	7.8	87.9	47.3	4.3	0.0	49.1	45.3
Bahrain	706	27.8	30.6	22.6	58.3	27.8	19.1	0.0	31.9	23.7
Botswana	842	14.3	36.4	40.0	50.6	14.3	9.4	0.0	15.1	13.4
Canada	1231	46.3	45.6	3.1	91.9	46.3	5.0	0.0	48.7	43.8
Chile	695	19.1	49.2	13.1	68.3	19.1	18.4	0.2	21.9	16.9
Chinese Taipei	818	33.7	51.6	9.3	85.3	33.7	5.4	0.0	34.7	32.8
Egypt	1102	7.1	26.9	38.8	34.0	7.1	27.1	0.1	8.4	5.7
England	687	56.7	35.5	3.6	92.2	56.7	4.2	0.0	60.4	52.8
Georgia	581	29.8	47.0	4.5	76.8	29.8	18.6	0.1	33.7	25.8
Hong Kong SAR	597	45.1	41.0	6.1	86.1	45.1	7.7	0.0	46.7	43.6
Hungary	688	48.0	34.7	5.5	82.6	48.0	11.9	0.0	55.0	41.5
Iran, Islamic Rep. of	876	26.2	49.2	10.0	75.4	26.2	14.6	0.0	27.9	24.7
Ireland	678	40.4	51.7	4.8	92.1	40.4	3.1	0.0	42.1	38.6
Israel	793	31.2	42.6	12.5	73.8	31.2	13.6	0.1	28.9	33.7
Italy	663	34.2	49.6	2.5	83.8	34.2	13.6	0.0	37.7	31.0
Japan	669	30.8	45.2	17.4	76.0	30.8	6.6	0.0	30.0	31.7
Jordan	1124	10.4	38.2	30.9	48.7	10.4	20.5	0.0	14.8	5.9
Kazakhstan	697	32.5	51.2	9.3	83.8	32.5	6.9	0.0	37.4	27.5
Korea, Rep. of	751	64.3	27.5	3.5	91.8	64.3	4.7	0.0	63.5	65.0
Kuwait	674	14.2	27.5	24.9	41.7	14.2	33.3	0.0	11.8	16.9
Lebanon	552	9.1	22.5	25.4	31.6	9.1	42.7	0.2	7.9	10.3
Lithuania	620	40.1	47.7	5.7	87.8	40.1	6.5	0.0	40.8	39.4
Malaysia	1394	31.0	42.6	17.7	73.6	31.0	8.7	0.0	31.3	30.7
Malta	543	34.1	39.4	11.6	73.6	34.1	14.9	0.0	35.2	33.1
Morocco	1730	14.5	26.1	24.7	40.6	14.5	34.7	0.0	15.9	13.3
New Zealand	1150	48.2	37.9	8.1	86.2	48.2	5.2	0.5	51.0	45.3
Norway	672	42.1	50.3	3.2	92.5	42.1	4.3	0.0	43.5	40.7
Oman	1273	20.1	41.0	27.3	61.1	20.1	11.6	0.0	23.5	16.8
Qatar	769	27.1	35.9	20.0	63.0	27.1	17.0	0.0	32.4	22.1
Russian Federation	685	23.2	43.2	16.9	66.4	23.2	16.7	0.0	23.9	22.4
Saudi Arabia	542	11.7	28.9	32.4	40.6	11.7	27.0	0.0	14.4	8.9
Singapore	873	63.0	30.6	4.6	93.6	63.0	1.8	0.0	65.4	60.7
Slovenia	607	39.6	50.7	4.6	90.3	39.6	5.2	0.0	41.1	37.9
South Africa	1795	11.2	29.6	49.7	40.8	11.2	9.6	0.0	11.9	10.5
Sweden	574	48.6	40.3	3.5	88.9	48.6	7.5	0.0	58.0	38.9
Thailand	927	27.4	41.0	18.3	68.5	27.4	13.3	0.0	28.2	26.6
Turkey	865	32.1	43.5	13.5	75.6	32.1	11.0	0.0	30.2	33.8
United Arab Emirates	2579	33.2	35.8	19.7	69.0	33.2	11.3	0.0	36.8	29.5
United States	1464	40.6	44.6	12.3	85.2	40.6	2.5	0.0	40.6	40.3
International Avg (n=39)	35958	32.2	39.8	15.1	72.0	32.2	12.8	0.0	34.1	30.3
Buenos Aires, Argentina	438	22.6	37.5	11.4	60.0	22.6	28.5	0.0	26.0	18.6
Ontario, Canada	631	51.8	40.4	2.8	92.2	51.8	4.9	0.0	55.8	47.6
Quebec, Canada	560	35.0	56.2	3.8	91.2	35.0	5.0	0.0	32.7	37.3
Norway (8)	667	38.7	51.3	2.8	90.0	38.7	7.2	0.0	39.8	37.6
Abu Dhabi, UAE	691	29.1	38.2	21.3	67.3	29.1	11.4	0.0	33.5	24.4
Dubai, UAE	869	46.1	34.1	13.8	80.2	46.1	6.0	0.0	50.5	41.4
Florida, US	286	36.6	44.3	14.2	80.9	36.6	4.9	0.0	40.6	32.7

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S13_02 (S052069): Biology / Knowing Type: MC Key: C
Label: Organism with cell walls

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	75.4	9.3	10.6	75.4	0.7	3.9	0.0	77.0	73.9
Bahrain	706	64.0	11.5	18.4	64.0	3.2	2.8	0.0	67.1	61.0
Botswana	842	63.1	21.6	9.5	63.1	4.1	1.6	0.0	66.1	59.9
Canada	1198	68.8	13.1	15.3	68.8	1.6	1.2	0.0	67.1	70.5
Chile	695	44.5	22.6	27.2	44.5	2.9	2.6	0.2	44.1	44.8
Chinese Taipei	818	73.3	8.5	17.0	73.3	0.6	0.6	0.0	72.2	74.3
Egypt	1102	44.8	19.0	23.6	44.8	9.9	2.8	0.1	45.0	44.4
England	687	71.0	9.6	13.1	71.0	1.5	4.8	0.0	71.6	70.4
Georgia	581	40.0	31.7	21.0	40.0	2.3	4.9	0.1	37.5	42.6
Hong Kong SAR	597	62.1	13.8	19.5	62.1	3.9	0.7	0.0	60.0	64.1
Hungary	688	13.8	21.6	57.9	13.8	3.7	3.1	0.0	12.8	14.6
Iran, Islamic Rep. of	876	40.4	32.1	16.4	40.4	6.4	4.7	0.0	46.3	35.2
Ireland	678	72.2	13.9	8.9	72.2	1.8	3.0	0.0	71.6	72.9
Israel	793	52.5	15.2	24.1	52.5	4.4	3.6	0.1	53.9	51.0
Italy	663	25.2	24.7	41.5	25.2	2.4	6.3	0.0	23.4	26.8
Japan	669	72.6	15.7	7.4	72.6	0.5	3.7	0.0	71.8	73.5
Jordan	1124	43.6	17.3	25.1	43.6	10.4	3.6	0.0	46.5	40.7
Kazakhstan	697	32.6	46.8	16.5	32.6	3.0	1.1	0.0	29.2	36.0
Korea, Rep. of	751	63.4	20.2	14.7	63.4	0.9	0.9	0.0	61.3	65.3
Kuwait	674	41.7	13.1	30.7	41.7	8.6	5.9	0.0	44.4	39.0
Lebanon	532	26.3	41.4	17.9	26.3	6.7	7.5	0.2	28.8	23.8
Lithuania	620	52.1	14.9	28.0	52.1	3.0	2.0	0.0	51.5	52.7
Malaysia	1394	71.3	13.0	11.5	71.3	3.7	0.5	0.0	74.6	68.2
Malta	543	62.3	9.7	19.5	62.3	4.3	4.2	0.0	65.5	59.4
Morocco	1730	30.2	18.2	32.0	30.2	10.1	9.5	0.1	28.4	31.6
New Zealand	1150	71.2	9.8	12.7	71.2	1.6	4.2	0.5	69.8	72.6
Norway	672	41.5	17.7	27.2	41.5	5.9	7.8	0.0	43.2	39.6
Oman	1272	41.4	15.4	34.6	41.4	6.3	2.3	0.0	43.5	39.3
Qatar	769	71.5	13.4	9.4	71.5	2.9	2.7	0.0	77.2	66.2
Russian Federation	685	47.6	20.5	26.5	47.6	2.4	2.9	0.0	48.6	46.6
Saudi Arabia	535	53.4	15.6	21.5	53.4	6.9	2.7	0.0	61.5	44.9
Singapore	873	87.0	3.6	7.4	87.0	1.4	0.6	0.0	87.0	87.0
Slovenia	607	69.8	11.2	11.7	69.8	0.6	6.7	0.0	70.9	68.6
South Africa	1795	61.0	15.3	13.0	61.0	3.3	7.4	0.0	64.2	57.6
Sweden	574	55.1	15.6	20.1	55.1	1.7	7.4	0.0	58.1	51.9
Thailand	925	36.7	22.9	35.8	36.7	3.8	0.8	0.0	37.0	36.4
Turkey	865	60.0	13.9	23.0	60.0	2.8	0.3	0.0	65.6	54.9
United Arab Emirates	2581	65.2	9.9	19.8	65.2	2.5	2.7	0.0	67.7	62.6
United States	1464	74.9	11.0	11.3	74.9	0.8	2.0	0.0	74.1	75.6
International Avg (n=39)	35897	55.0	17.3	20.6	55.0	3.7	3.5	0.0	56.1	53.9
Buenos Aires, Argentina	432	24.5	7.8	43.2	24.5	4.1	20.3	0.0	27.2	21.4
Ontario, Canada	616	69.6	11.7	16.4	69.6	1.3	1.0	0.0	68.3	71.0
Quebec, Canada	543	64.5	16.7	15.4	64.5	1.9	1.6	0.0	63.2	65.7
Norway (8)	666	43.5	14.8	28.2	43.5	5.4	8.1	0.0	44.6	42.3
Abu Dhabi, UAE	693	62.4	11.9	20.9	62.4	3.0	1.8	0.0	66.0	58.6
Dubai, UAE	869	75.2	5.5	15.9	75.2	1.5	2.0	0.0	74.6	75.8
Florida, US	286	74.2	13.3	10.4	74.2	0.2	1.9	0.0	77.3	71.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_03 (S052012): Biology / Knowing Type: MC Key: B
Label: How decomposers get energy

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	47.4	29.0	47.4	11.8	7.9	3.9	0.0	40.7	54.5
Bahrain	706	48.3	25.1	48.3	17.4	6.7	2.5	0.0	52.2	44.5
Botswana	843	63.0	20.0	63.0	6.5	9.8	0.8	0.0	68.6	57.1
Canada	1230	64.1	21.8	64.1	7.5	4.6	1.9	0.0	61.8	66.5
Chile	695	70.6	16.1	70.6	4.3	6.3	2.6	0.2	69.9	71.1
Chinese Taipei	818	74.9	14.2	74.9	5.4	5.3	0.3	0.0	70.5	79.0
Egypt	1102	30.8	33.0	30.8	21.7	12.5	2.0	0.1	27.6	34.4
England	687	42.0	33.8	42.0	13.8	7.8	2.6	0.0	39.2	44.9
Georgia	581	20.0	41.1	20.0	14.8	14.2	9.7	0.1	21.3	18.7
Hong Kong SAR	597	46.0	16.9	46.0	22.7	12.0	2.4	0.0	42.4	49.5
Hungary	688	62.7	19.9	62.7	10.5	5.2	1.7	0.0	61.0	64.3
Iran, Islamic Rep. of	876	48.6	30.1	48.6	6.6	12.6	2.1	0.0	43.6	53.1
Ireland	678	48.9	26.4	48.9	14.6	9.2	0.9	0.0	49.5	48.3
Israel	793	38.7	27.1	38.7	12.9	16.6	4.6	0.1	38.2	39.2
Italy	663	54.2	18.5	54.2	12.5	10.2	4.6	0.0	50.7	57.3
Japan	669	36.2	32.4	36.2	11.3	19.3	0.9	0.0	32.5	40.2
Jordan	1125	49.6	32.2	49.6	9.6	6.1	2.5	0.0	50.5	48.6
Kazakhstan	698	45.5	32.4	45.5	6.2	13.3	2.6	0.0	46.8	44.1
Korea, Rep. of	751	59.5	16.4	59.5	14.1	10.0	0.0	0.0	57.0	61.8
Kuwait	674	40.0	30.9	40.0	17.0	8.7	3.3	0.0	37.7	42.2
Lebanon	544	37.1	35.2	37.1	9.6	11.3	6.7	0.2	34.4	39.8
Lithuania	620	58.1	20.8	58.1	8.4	11.5	1.1	0.0	59.0	57.3
Malaysia	1394	44.2	19.5	44.2	8.3	26.4	1.7	0.0	39.3	48.9
Malta	543	43.6	32.9	43.6	11.1	9.6	2.8	0.0	45.1	42.2
Morocco	1730	25.8	34.8	25.8	22.2	12.7	4.4	0.1	22.4	28.7
New Zealand	1150	50.0	26.3	50.0	13.2	7.6	2.3	0.5	49.0	51.1
Norway	672	61.1	19.2	61.1	7.1	10.9	1.7	0.0	57.0	65.5
Oman	1273	49.8	29.0	49.8	12.1	7.3	1.8	0.0	53.7	46.1
Qatar	769	48.5	26.3	48.5	13.9	9.2	2.2	0.0	45.1	51.6
Russian Federation	685	46.8	27.2	46.8	10.3	10.3	5.4	0.0	49.1	44.5
Saudi Arabia	540	27.5	42.6	27.5	17.3	10.7	1.9	0.0	31.3	23.4
Singapore	873	83.4	9.3	83.4	4.4	2.2	0.6	0.0	80.5	86.2
Slovenia	607	71.6	10.9	71.6	7.5	8.7	1.3	0.0	70.9	72.4
South Africa	1795	31.7	38.5	31.7	9.5	18.2	2.1	0.0	33.3	29.9
Sweden	574	62.1	14.3	62.1	9.4	12.2	1.9	0.0	61.2	63.2
Thailand	927	36.3	42.8	36.3	11.5	8.0	1.4	0.0	35.6	37.2
Turkey	865	69.4	13.3	69.4	8.6	7.7	1.0	0.0	70.0	68.9
United Arab Emirates	2581	52.2	24.5	52.2	13.0	8.5	1.9	0.0	51.7	52.7
United States	1464	70.4	18.6	70.4	5.3	4.8	0.9	0.0	65.4	75.3
International Avg (n=39)	35952	50.3	25.7	50.3	11.4	10.2	2.4	0.0	49.1	51.4
Buenos Aires, Argentina	434	60.1	24.0	60.1	4.8	3.9	7.2	0.0	58.6	61.7
Ontario, Canada	631	64.6	21.0	64.6	8.0	4.3	2.1	0.0	63.0	66.4
Quebec, Canada	559	62.9	23.3	62.9	6.7	5.3	1.8	0.0	59.6	66.2
Norway (8)	667	58.0	21.1	58.0	7.9	11.0	2.1	0.0	55.9	60.1
Abu Dhabi, UAE	693	47.6	27.1	47.6	13.6	9.3	2.5	0.0	46.4	48.8
Dubai, UAE	869	66.0	18.7	66.0	8.0	6.8	0.5	0.0	65.4	66.6
Florida, US	286	69.8	18.6	69.8	4.2	6.2	1.2	0.0	65.1	74.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_04 (S052021): Biology / Reasoning Type: CR 1 Point
Label: Organism that competes with humans

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	42.5	50.9	42.5	6.6	0.0	38.6	46.6
Bahrain	706	17.3	75.4	17.3	7.2	0.0	18.2	16.5
Botswana	843	29.4	67.8	29.4	2.7	0.0	31.0	27.8
Canada	1231	39.8	54.6	39.8	5.6	0.0	36.6	43.0
Chile	695	11.7	71.1	11.7	17.0	0.2	10.5	12.6
Chinese Taipei	818	46.6	52.2	46.6	1.2	0.0	43.9	49.2
Egypt	1102	17.2	71.1	17.2	11.6	0.1	17.4	16.9
England	687	35.9	57.2	35.9	6.9	0.0	33.1	38.9
Georgia	581	32.7	59.5	32.7	7.6	0.1	30.0	35.5
Hong Kong SAR	597	63.0	35.2	63.0	1.8	0.0	60.7	65.3
Hungary	688	21.7	73.6	21.7	4.8	0.0	18.6	24.5
Iran, Islamic Rep. of	876	51.5	42.1	51.5	6.4	0.0	52.7	50.5
Ireland	678	31.5	62.9	31.5	5.5	0.0	30.3	32.8
Israel	793	41.6	50.3	41.6	7.9	0.1	40.1	43.3
Italy	663	19.8	65.0	19.8	15.2	0.0	15.6	23.7
Japan	669	46.7	51.8	46.7	1.5	0.0	41.4	52.5
Jordan	1125	28.3	65.7	28.3	6.0	0.0	32.7	23.8
Kazakhstan	698	62.7	35.1	62.7	2.2	0.0	67.7	57.6
Korea, Rep. of	751	61.2	37.7	61.2	1.1	0.0	55.6	66.4
Kuwait	673	13.8	77.1	13.8	9.1	0.0	10.8	17.0
Lebanon	552	10.5	68.4	10.5	20.9	0.2	9.2	11.9
Lithuania	620	27.1	68.1	27.1	4.8	0.0	27.3	26.8
Malaysia	1394	31.9	62.5	31.9	5.6	0.0	30.3	33.5
Malta	543	27.0	65.3	27.0	7.6	0.0	25.4	28.5
Morocco	1730	27.8	63.9	27.8	8.2	0.1	24.9	30.3
New Zealand	1150	32.0	61.2	32.0	6.3	0.5	31.6	32.4
Norway	672	25.0	67.5	25.0	7.5	0.0	21.0	29.2
Oman	1273	26.2	68.6	26.2	5.2	0.0	25.8	26.6
Qatar	769	23.5	70.0	23.5	6.5	0.0	24.9	22.2
Russian Federation	685	65.9	31.0	65.9	3.1	0.0	66.8	65.0
Saudi Arabia	541	14.2	76.7	14.2	9.1	0.0	14.2	14.2
Singapore	873	62.0	37.0	62.0	1.0	0.0	57.9	66.0
Slovenia	607	27.0	68.1	27.0	4.9	0.0	26.6	27.5
South Africa	1795	10.2	86.0	10.2	3.8	0.0	9.2	11.3
Sweden	574	39.3	50.1	39.3	10.5	0.0	36.3	42.5
Thailand	927	49.5	43.2	49.5	7.3	0.0	54.8	43.6
Turkey	865	31.5	63.3	31.5	5.2	0.0	29.9	33.0
United Arab Emirates	2581	26.8	68.7	26.8	4.5	0.0	25.5	28.1
United States	1464	45.0	52.7	45.0	2.3	0.0	43.0	46.7
International Avg (n=39)	35961	33.8	59.7	33.8	6.5	0.0	32.6	35.0
Buenos Aires, Argentina	437	8.2	51.5	8.2	40.3	0.0	8.5	7.9
Ontario, Canada	631	40.5	54.3	40.5	5.3	0.0	39.7	41.3
Quebec, Canada	560	38.7	54.5	38.7	6.9	0.0	30.0	47.2
Norway (8)	667	20.8	71.8	20.8	7.4	0.0	14.9	26.7
Abu Dhabi, UAE	693	23.2	70.5	23.2	6.4	0.0	23.8	22.5
Dubai, UAE	869	39.4	58.1	39.4	2.5	0.0	36.8	42.1
Florida, US	286	39.2	58.3	39.2	2.5	0.0	38.8	39.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S13_05B (S052095B): Biology / Applying Type: MC Key: B
Label: Garden with bird feeder: cat+birds

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	79.5	15.5	79.5	5.0	0.0	80.6	78.4
Bahrain	706	71.6	20.4	71.6	8.0	0.0	77.6	65.7
Botswana	843	68.6	19.1	68.6	12.3	0.0	70.8	66.3
Canada	1231	79.5	17.7	79.5	2.7	0.0	80.5	78.5
Chile	695	77.4	16.6	77.4	5.9	0.2	76.8	77.8
Chinese Taipei	818	77.2	22.2	77.2	0.6	0.0	75.4	78.8
Egypt	1102	45.7	32.2	45.7	22.0	0.1	47.2	44.0
England	687	76.3	21.1	76.3	2.5	0.0	77.8	74.8
Georgia	581	72.3	17.7	72.3	9.9	0.1	74.4	70.2
Hong Kong SAR	597	65.3	32.6	65.3	2.1	0.0	66.2	64.5
Hungary	688	86.1	12.8	86.1	1.1	0.0	83.8	88.2
Iran, Islamic Rep. of	877	81.6	13.5	81.6	4.9	0.0	82.8	80.6
Ireland	678	79.0	15.9	79.0	5.0	0.0	82.5	75.5
Israel	793	75.4	17.8	75.4	6.7	0.1	76.5	74.2
Italy	663	78.4	19.2	78.4	2.4	0.0	77.8	78.9
Japan	669	61.7	37.3	61.7	1.0	0.0	64.7	58.4
Jordan	1125	71.1	19.5	71.1	9.4	0.0	72.6	69.6
Kazakhstan	698	74.9	18.3	74.9	6.8	0.0	75.8	74.0
Korea, Rep. of	751	69.5	26.6	69.5	3.9	0.0	70.1	69.0
Kuwait	665	62.9	31.3	62.9	5.9	0.0	63.2	62.3
Lebanon	539	58.3	22.3	58.3	19.1	0.3	57.1	59.5
Lithuania	620	88.0	11.4	88.0	0.5	0.0	91.7	84.5
Malaysia	1394	65.7	28.7	65.7	5.6	0.0	68.3	63.2
Malta	543	74.5	20.5	74.5	5.0	0.0	74.6	74.4
Morocco	1730	68.7	19.1	68.7	12.2	0.1	68.9	68.5
New Zealand	1150	81.6	13.4	81.6	4.5	0.5	83.8	79.3
Norway	672	81.0	16.0	81.0	3.0	0.0	81.0	80.9
Oman	1272	72.6	18.1	72.6	9.3	0.0	76.8	68.6
Qatar	769	67.8	21.6	67.8	10.5	0.0	73.6	62.4
Russian Federation	685	91.7	5.9	91.7	2.5	0.0	92.9	90.4
Saudi Arabia	540	65.2	25.2	65.2	9.6	0.0	63.9	66.6
Singapore	873	74.4	22.8	74.4	2.8	0.0	77.6	71.3
Slovenia	607	83.0	16.5	83.0	0.5	0.0	84.9	80.9
South Africa	1795	61.4	24.1	61.4	14.5	0.0	62.9	59.7
Sweden	574	77.2	17.4	77.2	5.4	0.0	81.3	72.9
Thailand	925	62.7	32.1	62.7	5.2	0.0	65.3	59.9
Turkey	865	77.6	20.0	77.6	2.3	0.0	76.2	79.0
United Arab Emirates	2581	70.1	22.9	70.1	6.9	0.0	71.6	68.6
United States	1464	77.3	19.6	77.3	3.0	0.0	77.4	77.2
International Avg (n=39)	35937	73.1	20.6	73.1	6.2	0.0	74.5	71.7
Buenos Aires, Argentina	430	53.7	25.8	53.7	20.5	0.0	52.6	55.0
Ontario, Canada	631	76.9	19.8	76.9	3.3	0.0	80.7	72.9
Quebec, Canada	560	83.5	14.7	83.5	1.9	0.0	79.0	87.9
Norway (8)	667	79.1	17.5	79.1	3.5	0.0	77.6	80.6
Abu Dhabi, UAE	693	66.2	24.9	66.2	9.0	0.0	66.3	66.1
Dubai, UAE	869	72.8	22.2	72.8	5.1	0.0	74.3	71.2
Florida, US	286	72.5	24.7	72.5	2.8	0.0	71.8	73.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_05C (S052095C): Biology / Applying Type: MC Key: B
Label: Garden with bird feeder: cat+mouse

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	82.7	14.0	82.7	3.4	0.0	83.3	82.0
Bahrain	706	74.6	19.0	74.6	6.4	0.0	80.4	68.9
Botswana	844	57.7	34.3	57.7	8.1	0.0	57.2	58.2
Canada	1230	86.5	11.5	86.5	2.0	0.0	87.5	85.5
Chile	695	83.3	12.2	83.3	4.3	0.2	83.0	83.6
Chinese Taipei	818	85.1	14.8	85.1	0.1	0.0	83.4	86.8
Egypt	1102	60.4	19.3	60.4	20.2	0.1	61.6	59.1
England	687	83.9	14.7	83.9	1.5	0.0	84.9	82.8
Georgia	581	79.1	13.9	79.1	6.9	0.1	80.6	77.5
Hong Kong SAR	597	87.2	11.4	87.2	1.4	0.0	85.0	89.3
Hungary	688	85.2	13.7	85.2	1.1	0.0	84.9	85.4
Iran, Islamic Rep. of	877	66.8	28.5	66.8	4.8	0.0	67.0	66.5
Ireland	678	81.1	16.4	81.1	2.5	0.0	83.6	78.6
Israel	793	86.2	7.4	86.2	6.3	0.1	86.8	85.5
Italy	663	87.2	10.6	87.2	2.2	0.0	84.2	89.9
Japan	669	84.3	14.8	84.3	0.9	0.0	81.3	87.6
Jordan	1125	76.1	15.3	76.1	8.6	0.0	82.4	69.7
Kazakhstan	698	80.8	16.6	80.8	2.6	0.0	81.7	79.8
Korea, Rep. of	751	76.3	22.8	76.3	0.9	0.0	71.4	80.9
Kuwait	665	73.4	21.6	73.4	5.0	0.0	74.5	72.3
Lebanon	539	44.9	36.1	44.9	18.7	0.3	45.5	44.3
Lithuania	620	91.0	8.4	91.0	0.6	0.0	89.9	92.1
Malaysia	1394	79.3	17.4	79.3	3.3	0.0	82.6	76.1
Malta	543	69.2	27.7	69.2	3.1	0.0	63.8	74.2
Morocco	1730	78.3	12.1	78.3	9.5	0.1	81.8	75.4
New Zealand	1150	82.2	13.7	82.2	3.6	0.5	84.6	79.7
Norway	672	91.0	7.7	91.0	1.3	0.0	92.3	89.7
Oman	1273	73.4	19.8	73.4	6.9	0.0	76.7	70.2
Qatar	769	69.2	20.4	69.2	10.4	0.0	72.8	65.9
Russian Federation	685	93.7	4.3	93.7	2.0	0.0	94.8	92.6
Saudi Arabia	539	75.9	18.9	75.9	5.2	0.0	84.2	67.2
Singapore	873	92.1	6.5	92.1	1.4	0.0	91.4	92.8
Slovenia	607	88.1	11.4	88.1	0.5	0.0	88.6	87.6
South Africa	1795	48.5	43.1	48.5	8.4	0.0	46.8	50.4
Sweden	574	87.7	7.5	87.7	4.8	0.0	89.8	85.5
Thailand	922	90.8	7.3	90.8	2.0	0.0	90.9	90.6
Turkey	865	83.5	14.6	83.5	1.9	0.0	82.5	84.5
United Arab Emirates	2581	74.2	21.1	74.2	4.7	0.0	76.7	71.7
United States	1464	83.7	13.9	83.7	2.5	0.0	84.2	83.0
International Avg (n=39)	35934	78.8	16.5	78.8	4.6	0.0	79.6	78.0
Buenos Aires, Argentina	431	49.7	33.0	49.7	17.3	0.0	50.6	48.6
Ontario, Canada	631	85.6	12.0	85.6	2.4	0.0	88.2	82.8
Quebec, Canada	560	88.1	10.2	88.1	1.7	0.0	87.0	89.2
Norway (8)	667	92.0	5.5	92.0	2.4	0.0	93.9	90.2
Abu Dhabi, UAE	693	73.6	20.2	73.6	6.2	0.0	79.2	67.9
Dubai, UAE	869	78.6	18.4	78.6	3.0	0.0	78.3	79.0
Florida, US	286	85.3	13.5	85.3	1.2	0.0	84.6	86.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_05D (S052095D): Biology / Applying Type: MC Key: A
Label: Garden with bird feeder: mouse+birds

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	72.0	72.0	24.0	4.0	0.0	74.0	69.9
Bahrain	706	70.1	70.1	22.1	7.8	0.0	75.7	64.7
Botswana	843	57.1	57.1	30.7	12.2	0.0	54.5	59.9
Canada	1231	75.6	75.6	21.6	2.8	0.0	76.2	74.9
Chile	695	74.7	74.7	19.6	5.6	0.2	73.1	76.0
Chinese Taipei	818	69.4	69.4	30.0	0.6	0.0	68.3	70.3
Egypt	1102	45.6	45.6	31.0	23.4	0.1	48.8	41.9
England	687	72.2	72.2	25.6	2.3	0.0	73.2	71.1
Georgia	581	74.4	74.4	14.9	10.6	0.1	73.7	75.1
Hong Kong SAR	597	73.9	73.9	23.9	2.2	0.0	71.6	76.1
Hungary	688	81.3	81.3	17.7	1.1	0.0	79.8	82.6
Iran, Islamic Rep. of	877	66.6	66.6	28.1	5.2	0.0	66.9	66.4
Ireland	678	65.9	65.9	28.9	5.2	0.0	66.7	65.1
Israel	793	75.7	75.7	17.6	6.6	0.1	74.8	76.6
Italy	663	80.0	80.0	16.1	3.9	0.0	73.7	85.8
Japan	669	66.9	66.9	32.1	1.0	0.0	65.7	68.1
Jordan	1125	67.6	67.6	22.0	10.4	0.0	72.6	62.5
Kazakhstan	698	75.6	75.6	17.4	7.0	0.0	72.0	79.4
Korea, Rep. of	751	61.4	61.4	34.2	4.4	0.0	61.4	61.4
Kuwait	665	69.6	69.6	25.1	5.3	0.0	72.7	66.2
Lebanon	524	39.1	39.1	37.7	22.8	0.3	38.3	40.0
Lithuania	620	84.8	84.8	14.5	0.7	0.0	83.3	86.3
Malaysia	1394	63.9	63.9	30.5	5.7	0.0	65.7	62.1
Malta	543	62.0	62.0	33.6	4.4	0.0	60.1	63.8
Morocco	1730	66.7	66.7	20.9	12.3	0.1	69.6	64.1
New Zealand	1150	75.8	75.8	18.8	4.8	0.5	76.5	75.1
Norway	672	78.5	78.5	17.4	4.1	0.0	81.6	75.2
Oman	1270	68.7	68.7	21.1	10.2	0.0	70.5	67.0
Qatar	769	61.3	61.3	28.1	10.6	0.0	63.9	58.9
Russian Federation	685	86.0	86.0	10.3	3.7	0.0	85.6	86.5
Saudi Arabia	540	66.1	66.1	24.0	9.9	0.0	68.5	63.5
Singapore	873	74.2	74.2	22.9	2.9	0.0	72.4	75.9
Slovenia	607	78.1	78.1	21.2	0.7	0.0	76.7	79.6
South Africa	1795	44.4	44.4	41.5	14.2	0.0	41.3	47.6
Sweden	574	75.7	75.7	16.9	7.4	0.0	76.6	74.8
Thailand	924	77.8	77.8	16.8	5.4	0.0	78.6	76.9
Turkey	865	65.7	65.7	31.8	2.5	0.0	61.2	69.8
United Arab Emirates	2581	67.1	67.1	25.7	7.2	0.0	68.2	66.0
United States	1464	71.4	71.4	25.2	3.4	0.0	69.2	73.5
International Avg (n=39)	35919	69.3	69.3	24.1	6.5	0.0	69.3	69.2
Buenos Aires, Argentina	429	44.4	44.4	35.0	20.5	0.0	43.8	45.1
Ontario, Canada	631	74.3	74.3	22.5	3.1	0.0	78.2	70.1
Quebec, Canada	560	80.6	80.6	17.1	2.3	0.0	77.7	83.4
Norway (8)	667	79.3	79.3	15.8	5.0	0.0	79.6	79.0
Abu Dhabi, UAE	693	68.0	68.0	23.3	8.7	0.0	71.7	64.1
Dubai, UAE	869	66.8	66.8	28.3	4.9	0.0	64.3	69.4
Florida, US	286	65.0	65.0	32.4	2.6	0.0	62.0	68.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_05Z (S052095Z): Biology / Applying Type: CR 1 Point
Label: Garden with bird feeder (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1480	62.3	35.1	62.3	2.5	0.0	65.2	59.4
Bahrain	706	52.1	42.4	52.1	5.5	0.0	58.3	46.0
Botswana	843	36.4	59.0	36.4	4.6	0.0	34.1	38.9
Canada	1234	66.1	31.8	66.1	2.1	0.0	66.4	65.9
Chile	698	60.5	34.9	60.5	4.4	0.2	58.5	62.2
Chinese Taipei	819	52.9	46.8	52.9	0.3	0.0	49.6	56.1
Egypt	1102	24.5	58.5	24.5	16.9	0.1	26.7	22.0
England	687	60.0	38.6	60.0	1.4	0.0	63.8	56.1
Georgia	581	57.8	36.9	57.8	5.2	0.1	56.8	58.8
Hong Kong SAR	597	50.5	48.2	50.5	1.2	0.0	48.2	52.8
Hungary	689	68.6	30.8	68.6	0.6	0.0	63.4	73.4
Iran, Islamic Rep. of	878	53.6	43.2	53.6	3.2	0.0	53.2	53.9
Ireland	678	57.8	40.3	57.8	1.8	0.0	58.9	56.7
Israel	793	62.0	32.2	62.0	5.7	0.1	60.2	63.9
Italy	665	66.5	31.6	66.5	1.9	0.0	61.9	70.7
Japan	669	42.5	56.8	42.5	0.7	0.0	42.8	42.2
Jordan	1125	50.5	43.4	50.5	6.1	0.0	54.6	46.4
Kazakhstan	698	58.1	40.0	58.1	1.8	0.0	57.1	59.2
Korea, Rep. of	753	43.8	55.3	43.8	0.9	0.0	40.1	47.2
Kuwait	667	41.3	54.9	41.3	3.8	0.0	41.0	41.5
Lebanon	522	25.9	56.3	25.9	17.4	0.3	27.4	24.5
Lithuania	620	78.2	21.4	78.2	0.5	0.0	79.4	76.9
Malaysia	1394	47.5	50.1	47.5	2.3	0.0	50.1	45.1
Malta	544	50.8	46.4	50.8	2.7	0.0	47.8	53.6
Morocco	1730	51.2	40.2	51.2	8.5	0.1	52.7	50.0
New Zealand	1155	67.7	28.1	67.7	3.6	0.5	69.2	66.2
Norway	674	67.9	30.8	67.9	1.3	0.0	69.6	66.0
Oman	1270	49.7	45.5	49.7	4.7	0.0	51.0	48.5
Qatar	771	45.5	44.8	45.5	9.8	0.0	47.6	43.5
Russian Federation	685	80.4	18.1	80.4	1.5	0.0	80.7	80.2
Saudi Arabia	539	43.4	52.0	43.4	4.5	0.0	45.6	41.2
Singapore	874	58.9	40.0	58.9	1.1	0.0	59.0	58.8
Slovenia	607	67.2	32.4	67.2	0.4	0.0	68.4	66.0
South Africa	1795	22.6	71.0	22.6	6.4	0.0	20.9	24.5
Sweden	575	63.1	33.8	63.1	3.0	0.0	66.8	59.3
Thailand	921	51.3	47.2	51.3	1.5	0.0	52.0	50.4
Turkey	865	50.8	48.2	50.8	1.1	0.0	44.3	56.7
United Arab Emirates	2581	47.7	48.9	47.7	3.4	0.0	48.9	46.5
United States	1464	60.8	37.2	60.8	2.1	0.0	58.7	62.6
International Avg (n=39)	35948	53.8	42.4	53.8	3.8	0.0	53.9	53.7
Buenos Aires, Argentina	438	33.5	48.4	33.5	18.1	0.0	30.7	36.8
Ontario, Canada	633	63.6	33.9	63.6	2.5	0.0	67.2	59.7
Quebec, Canada	562	71.8	26.4	71.8	1.8	0.0	68.9	74.7
Norway (8)	669	67.3	30.4	67.3	2.3	0.0	66.9	67.7
Abu Dhabi, UAE	693	46.9	49.0	46.9	4.1	0.0	48.9	44.9
Dubai, UAE	869	50.2	47.6	50.2	2.2	0.0	48.3	52.2
Florida, US	286	53.1	45.7	53.1	1.2	0.0	47.8	58.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S13_06 (S052134): Chemistry / Knowing Type: MC Key: B
Label: Number of atoms in NaOH

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	37.4	7.8	37.4	33.0	16.8	4.8	0.2	38.4	36.3
Bahrain	706	31.4	6.1	31.4	42.6	17.5	2.4	0.1	32.4	30.4
Botswana	0	.	.	.	.	.	.	.	.	.
Canada	1229	35.2	7.8	35.2	35.8	16.5	4.3	0.4	36.0	34.4
Chile	695	33.2	6.4	33.2	30.8	20.2	8.9	0.5	29.8	36.1
Chinese Taipei	818	32.5	14.2	32.5	44.8	7.5	1.0	0.0	33.7	31.4
Egypt	1102	32.1	6.6	32.1	39.0	18.7	3.4	0.1	30.6	33.9
England	687	43.9	4.6	43.9	30.4	15.9	4.8	0.5	45.3	42.3
Georgia	581	34.8	12.4	34.8	30.8	15.8	6.0	0.2	35.1	34.6
Hong Kong SAR	597	27.5	8.4	27.5	43.5	16.9	3.5	0.2	26.3	28.7
Hungary	688	34.6	6.8	34.6	42.6	13.8	2.3	0.0	34.9	34.3
Iran, Islamic Rep. of	877	27.8	5.7	27.8	34.7	22.1	9.0	0.7	28.9	26.9
Ireland	678	31.3	7.9	31.3	42.5	14.8	3.6	0.0	33.4	29.1
Israel	793	37.4	4.8	37.4	42.5	10.5	3.6	1.2	37.8	36.9
Italy	663	30.7	4.9	30.7	35.5	22.2	6.3	0.4	26.9	34.2
Japan	669	41.4	2.0	41.4	41.2	14.7	0.8	0.0	39.8	43.0
Jordan	0	.	.	.	.	.	.	.	.	.
Kazakhstan	698	58.7	7.5	58.7	24.1	8.2	1.4	0.1	57.5	59.9
Korea, Rep. of	751	35.2	4.3	35.2	48.9	11.4	0.1	0.0	33.2	37.2
Kuwait	0	.	.	.	.	.	.	.	.	.
Lebanon	541	31.0	5.3	31.0	40.0	10.9	11.1	1.7	29.7	32.4
Lithuania	620	40.5	7.1	40.5	38.0	10.8	3.6	0.0	44.6	36.4
Malaysia	1394	36.4	8.4	36.4	24.5	28.3	2.1	0.2	38.8	34.1
Malta	543	40.9	7.6	40.9	28.4	19.8	3.2	0.0	44.3	37.8
Morocco	0	.	.	.	.	.	.	.	.	.
New Zealand	1150	38.8	6.4	38.8	29.3	19.9	4.7	0.8	40.2	37.5
Norway	672	36.6	7.9	36.6	36.7	13.2	5.4	0.1	36.4	36.9
Oman	1273	29.8	4.6	29.8	48.8	14.1	2.0	0.6	24.7	34.7
Qatar	769	33.2	6.3	33.2	41.3	13.5	5.0	0.7	31.6	34.7
Russian Federation	685	52.5	8.2	52.5	30.6	6.0	2.7	0.0	51.9	53.1
Saudi Arabia	539	37.2	7.7	37.2	30.6	20.0	4.5	0.0	37.4	37.0
Singapore	873	62.5	5.3	62.5	23.7	7.8	0.6	0.1	63.3	61.8
Slovenia	607	42.1	4.1	42.1	34.2	15.8	3.8	0.0	43.9	40.1
South Africa	1795	20.7	5.7	20.7	41.1	28.8	2.9	0.7	18.0	23.6
Sweden	574	32.2	6.6	32.2	36.3	19.1	5.4	0.4	32.5	31.9
Thailand	927	34.9	6.8	34.9	34.7	19.7	3.7	0.3	37.3	32.2
Turkey	865	43.2	5.8	43.2	38.0	12.1	0.9	0.1	43.7	42.6
United Arab Emirates	2581	35.8	6.3	35.8	42.3	12.6	3.0	0.0	33.9	37.8
United States	1464	44.6	4.7	44.6	33.2	14.7	2.5	0.4	46.5	43.0
International Avg (n=35)	31576	37.1	6.7	37.1	36.4	15.7	3.8	0.3	37.1	37.1
Buenos Aires, Argentina	422	20.8	7.9	20.8	22.3	18.4	29.7	1.0	17.4	24.5
Ontario, Canada	631	32.2	9.3	32.2	33.2	19.2	5.3	0.7	33.3	31.1
Quebec, Canada	558	42.2	5.0	42.2	41.1	10.8	0.9	0.0	40.6	43.8
Norway (8)	667	32.8	8.2	32.8	40.5	13.6	4.9	0.0	37.0	28.6
Abu Dhabi, UAE	693	36.0	6.2	36.0	43.3	11.2	3.3	0.0	33.5	38.5
Dubai, UAE	869	38.6	6.6	38.6	40.0	13.2	1.7	0.0	37.1	40.1
Florida, US	286	37.4	6.8	37.4	37.3	16.4	1.8	0.3	34.3	40.4

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_07 (S052054): Chemistry / Applying Type: CR 1 Point
Label: Why Solution 2 is paler than 1

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	76.1	18.9	76.1	4.8	0.2	78.7	73.3
Bahrain	706	46.4	40.1	46.4	13.5	0.1	58.4	34.6
Botswana	843	27.7	64.3	27.7	7.1	0.9	31.0	24.2
Canada	1231	76.7	19.3	76.7	3.5	0.4	79.7	73.7
Chile	695	56.4	24.3	56.4	18.6	0.6	60.1	53.4
Chinese Taipei	818	74.4	21.2	74.4	4.4	0.0	77.9	71.1
Egypt	1102	22.9	55.6	22.9	21.3	0.1	27.0	18.3
England	687	76.8	15.8	76.8	6.8	0.7	84.0	69.1
Georgia	581	48.6	27.4	48.6	23.7	0.2	56.3	40.7
Hong Kong SAR	597	64.4	28.3	64.4	7.1	0.2	67.8	61.1
Hungary	688	77.8	17.3	77.8	4.9	0.0	80.7	75.2
Iran, Islamic Rep. of	877	62.7	25.3	62.7	11.3	0.7	65.5	60.2
Ireland	678	72.9	21.7	72.9	5.3	0.0	81.3	64.3
Israel	793	55.2	30.3	55.2	13.3	1.3	58.4	51.7
Italy	663	65.4	21.2	65.4	13.1	0.4	70.1	61.1
Japan	669	70.6	25.2	70.6	4.2	0.0	72.6	68.5
Jordan	1125	44.1	42.5	44.1	13.1	0.3	55.2	32.8
Kazakhstan	698	73.8	17.5	73.8	8.5	0.1	73.8	73.8
Korea, Rep. of	751	73.9	23.9	73.9	2.2	0.0	75.7	72.3
Kuwait	674	31.1	40.9	31.1	28.0	0.0	35.8	26.5
Lebanon	552	37.6	38.3	37.6	22.5	1.6	41.3	33.9
Lithuania	620	80.8	15.1	80.8	4.1	0.0	84.3	77.3
Malaysia	1394	56.1	35.5	56.1	8.2	0.2	60.8	51.5
Malta	543	60.8	23.0	60.8	16.2	0.0	69.0	53.2
Morocco	1730	34.1	42.6	34.1	22.8	0.5	38.0	30.7
New Zealand	1150	72.4	20.4	72.4	6.4	0.8	77.6	66.8
Norway	672	78.9	14.1	78.9	6.9	0.1	82.4	75.2
Oman	1272	48.2	39.4	48.2	11.8	0.6	57.8	39.1
Qatar	769	48.0	39.5	48.0	11.7	0.7	55.5	41.0
Russian Federation	685	83.6	10.2	83.6	6.2	0.0	85.1	82.0
Saudi Arabia	541	40.4	43.7	40.4	15.8	0.0	51.5	28.8
Singapore	873	77.6	21.1	77.6	1.2	0.1	81.0	74.4
Slovenia	607	73.9	21.2	73.9	4.9	0.0	76.1	71.4
South Africa	1795	28.6	61.0	28.6	9.8	0.7	31.6	25.4
Sweden	574	76.0	15.2	76.0	8.4	0.4	79.3	72.6
Thailand	927	50.1	37.1	50.1	12.3	0.4	56.6	43.0
Turkey	865	54.5	37.4	54.5	8.0	0.1	58.8	50.6
United Arab Emirates	2581	49.5	40.0	49.5	10.5	0.0	56.8	41.9
United States	1464	62.5	34.1	62.5	2.9	0.4	66.4	58.4
International Avg (n=39)	35962	59.3	30.0	59.3	10.4	0.3	64.1	54.4
Buenos Aires, Argentina	438	37.0	22.2	37.0	39.2	1.6	41.8	31.4
Ontario, Canada	631	76.4	18.9	76.4	4.0	0.7	80.3	72.1
Quebec, Canada	560	76.3	21.1	76.3	2.6	0.0	76.5	76.1
Norway (8)	667	75.4	15.8	75.4	8.8	0.0	80.3	70.5
Abu Dhabi, UAE	693	47.8	40.5	47.8	11.7	0.1	56.9	38.2
Dubai, UAE	869	59.5	32.0	59.5	8.5	0.0	63.8	54.9
Florida, US	286	61.7	34.6	61.7	3.4	0.3	67.3	56.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S13_08 (S052150): Chemistry / Knowing Type: MC Key: D
Label: Which is a physical change

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	44.1	18.1	12.7	23.9	44.1	1.0	0.2	43.0	45.2
Bahrain	706	37.6	27.5	22.0	11.7	37.6	1.1	0.1	39.1	36.2
Botswana	843	48.8	16.1	14.4	18.0	48.8	1.5	1.1	54.5	42.7
Canada	1219	38.0	18.6	15.6	26.2	38.0	0.9	0.7	33.2	42.9
Chile	695	24.5	34.0	25.3	14.1	24.5	1.6	0.6	21.7	26.8
Chinese Taipei	818	57.3	9.4	23.5	9.8	57.3	0.1	0.0	52.4	61.9
Egypt	1102	20.0	33.0	28.2	15.7	20.0	2.9	0.2	22.3	17.4
England	687	33.4	17.4	14.1	32.8	33.4	1.5	0.9	32.1	34.9
Georgia	581	53.1	21.6	13.7	10.3	53.1	1.1	0.2	57.0	49.0
Hong Kong SAR	597	26.0	14.9	34.0	24.8	26.0	0.2	0.2	22.6	29.3
Hungary	688	37.9	18.2	20.7	21.7	37.9	1.6	0.0	31.4	43.8
Iran, Islamic Rep. of	877	74.1	8.9	10.3	5.6	74.1	0.3	0.9	76.7	71.9
Ireland	678	37.2	12.2	13.3	35.4	37.2	1.9	0.0	33.4	41.1
Israel	793	41.8	21.1	18.5	15.9	41.8	1.1	1.5	40.4	43.3
Italy	663	34.2	20.4	22.2	20.8	34.2	2.1	0.4	34.0	34.4
Japan	669	18.3	11.6	55.0	14.2	18.3	0.9	0.0	12.2	25.0
Jordan	1125	26.1	31.5	29.3	11.4	26.1	1.2	0.5	28.7	23.5
Kazakhstan	698	56.0	16.7	14.8	10.4	56.0	1.9	0.3	57.8	54.2
Korea, Rep. of	751	39.9	6.1	36.4	17.5	39.9	0.1	0.0	28.8	50.2
Kuwait	674	35.5	23.5	24.5	13.4	35.5	2.8	0.3	33.9	36.9
Lebanon	538	27.4	25.0	22.3	18.0	27.4	5.3	1.8	25.8	29.0
Lithuania	620	30.7	20.6	29.2	18.4	30.7	1.1	0.0	23.9	37.3
Malaysia	1394	36.5	9.3	35.9	17.3	36.5	0.7	0.5	35.6	37.3
Malta	543	31.8	19.8	24.7	21.3	31.8	2.3	0.0	31.4	32.2
Morocco	1730	25.0	39.7	24.7	7.3	25.0	2.6	0.7	23.9	25.9
New Zealand	1150	35.5	18.8	15.8	26.9	35.5	2.1	0.8	34.4	36.7
Norway	672	22.6	17.6	21.3	34.3	22.6	4.1	0.2	20.0	25.4
Oman	1273	28.1	35.7	21.5	12.3	28.1	1.8	0.6	29.9	26.3
Qatar	769	27.2	28.9	28.8	12.4	27.2	2.0	0.7	29.5	24.9
Russian Federation	685	54.9	16.3	10.4	15.8	54.9	2.5	0.0	57.7	52.1
Saudi Arabia	541	27.0	33.6	29.2	9.1	27.0	1.2	0.0	29.6	24.2
Singapore	873	57.0	11.7	13.6	17.6	57.0	0.0	0.1	53.0	60.9
Slovenia	607	44.7	20.0	21.4	10.6	44.7	3.2	0.0	47.3	41.9
South Africa	1795	31.6	23.7	15.5	26.1	31.6	2.3	0.9	34.6	28.4
Sweden	574	19.8	33.3	16.1	27.5	19.8	2.9	0.5	18.0	21.6
Thailand	927	37.3	12.0	18.3	31.3	37.3	0.7	0.4	37.5	37.2
Turkey	865	53.7	12.2	16.9	17.1	53.7	0.0	0.1	57.3	50.3
United Arab Emirates	2581	43.2	23.1	18.8	12.6	43.2	2.2	0.1	43.3	43.0
United States	1464	58.0	14.5	9.5	16.1	58.0	1.5	0.4	54.6	61.2
International Avg (n=39)	35937	37.8	20.4	21.6	18.1	37.8	1.6	0.4	37.0	38.6
Buenos Aires, Argentina	437	18.7	27.1	16.2	28.2	18.7	7.9	2.0	17.7	19.9
Ontario, Canada	629	32.6	19.4	13.9	31.4	32.6	1.5	1.1	29.7	35.9
Quebec, Canada	550	46.5	19.6	18.4	15.5	46.5	0.0	0.0	41.7	51.3
Norway (8)	667	21.9	18.2	21.2	34.7	21.9	3.9	0.0	21.3	22.6
Abu Dhabi, UAE	693	36.3	26.2	20.2	14.2	36.3	3.1	0.1	40.0	32.4
Dubai, UAE	869	51.2	18.8	15.2	13.3	51.2	1.4	0.2	46.3	56.3
Florida, US	286	63.7	13.7	11.3	9.9	63.7	1.0	0.3	58.4	69.0

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_09A (S052243A): Physics / Reasoning Type: CR 1 Point
Label: Model flashlight: Bulb won't light

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	30.8	0.5	59.3	30.8	9.2	0.2	28.0	33.6
Bahrain	706	39.7	0.4	36.2	39.7	23.7	0.1	50.1	29.5
Botswana	843	29.6	0.0	59.5	29.6	9.7	1.1	26.7	32.7
Canada	1231	44.3	1.7	45.1	44.3	8.1	0.9	42.2	46.5
Chile	695	36.4	0.7	37.3	36.4	24.7	0.9	41.4	32.1
Chinese Taipei	818	60.5	2.7	25.9	60.5	11.0	0.0	59.3	61.6
Egypt	1100	23.5	1.5	41.6	23.5	33.1	0.2	23.9	23.1
England	687	47.1	0.5	43.6	47.1	8.0	0.9	45.2	49.2
Georgia	581	31.0	0.4	28.4	31.0	39.9	0.2	28.8	33.3
Hong Kong SAR	597	54.6	0.8	34.5	54.6	10.0	0.2	51.5	57.6
Hungary	688	50.3	1.2	31.6	50.3	16.8	0.0	46.1	54.2
Iran, Islamic Rep. of	877	45.4	3.9	31.8	45.4	18.0	0.9	44.2	46.5
Ireland	678	41.9	2.0	47.6	41.9	8.6	0.0	42.1	41.7
Israel	793	51.9	1.0	30.5	51.9	15.1	1.5	56.0	47.6
Italy	663	35.5	1.7	37.6	35.5	24.8	0.4	37.1	34.1
Japan	669	59.6	1.2	33.2	59.6	6.0	0.0	52.0	68.0
Jordan	1125	41.7	0.1	42.4	41.7	15.2	0.5	45.4	38.0
Kazakhstan	697	70.7	0.1	10.5	70.7	18.4	0.3	72.4	69.1
Korea, Rep. of	751	41.0	2.3	49.1	41.0	7.5	0.0	42.4	39.8
Kuwait	670	37.9	1.2	30.3	37.9	30.3	0.3	45.3	30.6
Lebanon	552	26.8	0.0	36.3	26.8	35.1	1.8	26.4	27.2
Lithuania	620	43.6	4.2	43.2	43.6	8.9	0.0	44.3	42.9
Malaysia	1394	50.5	1.5	37.9	50.5	9.7	0.5	52.3	48.7
Malta	543	38.0	0.0	42.6	38.0	19.4	0.0	40.0	36.2
Morocco	1730	14.2	0.3	59.5	14.2	25.1	0.8	13.9	14.5
New Zealand	1150	40.5	0.8	47.4	40.5	10.1	1.2	38.5	42.6
Norway	672	47.2	2.7	37.6	47.2	12.1	0.4	49.7	44.6
Oman	1269	40.1	3.6	40.2	40.1	15.5	0.6	43.0	37.2
Qatar	769	43.2	0.9	39.5	43.2	15.7	0.7	42.1	44.1
Russian Federation	685	42.6	0.0	36.4	42.6	21.1	0.0	37.4	47.8
Saudi Arabia	541	40.3	0.0	32.8	40.3	26.7	0.2	46.9	33.4
Singapore	873	71.5	0.4	25.9	71.5	2.2	0.1	70.5	72.5
Slovenia	607	59.5	0.9	31.3	59.5	8.4	0.0	63.2	55.3
South Africa	1795	19.0	4.3	63.3	19.0	12.2	1.1	19.6	18.5
Sweden	574	47.6	6.5	33.2	47.6	12.0	0.7	49.2	46.0
Thailand	927	33.0	0.4	34.6	33.0	31.6	0.4	34.0	31.9
Turkey	865	49.5	0.3	41.0	49.5	9.1	0.1	50.2	48.8
United Arab Emirates	2581	41.1	2.2	41.7	41.1	14.9	0.1	43.3	38.8
United States	1464	26.8	0.8	69.8	26.8	1.9	0.7	23.3	30.1
International Avg (n=39)	35952	42.3	1.4	39.8	42.3	16.1	0.5	42.8	41.8
Buenos Aires, Argentina	438	25.6	0.6	23.0	25.6	48.6	2.2	26.8	24.2
Ontario, Canada	631	41.4	2.2	46.6	41.4	8.4	1.5	42.7	39.9
Quebec, Canada	560	48.9	0.1	42.9	48.9	8.1	0.0	41.3	56.5
Norway (8)	667	38.5	2.2	42.4	38.5	16.9	0.0	35.6	41.3
Abu Dhabi, UAE	693	38.2	3.5	41.2	38.2	17.1	0.1	39.2	37.1
Dubai, UAE	869	50.9	1.5	39.5	50.9	8.0	0.2	53.4	48.3
Florida, US	286	21.9	1.2	72.3	21.9	4.2	0.3	20.4	23.5

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S13_09B (S052243B): Physics / Applying Type: CR 1 Point
Label: Model flashlight: 2 parallel bulbs

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	37.2	59.1	37.2	3.4	0.2	38.5	35.9
Bahrain	706	40.0	56.7	40.0	3.1	0.3	51.8	28.5
Botswana	843	28.4	68.5	28.4	1.6	1.4	28.3	28.4
Canada	1231	45.0	50.2	45.0	4.0	0.9	46.5	43.5
Chile	695	38.9	53.7	38.9	6.0	1.4	45.4	33.5
Chinese Taipei	818	39.6	59.6	39.6	0.8	0.0	39.9	39.3
Egypt	1100	18.1	77.8	18.1	3.8	0.3	22.1	13.6
England	687	52.3	44.7	52.3	1.8	1.2	55.6	48.8
Georgia	581	23.5	67.1	23.5	8.0	1.4	23.1	23.9
Hong Kong SAR	597	55.6	42.9	55.6	1.4	0.2	57.2	53.9
Hungary	688	52.5	45.1	52.5	2.4	0.0	46.8	57.6
Iran, Islamic Rep. of	877	43.0	52.0	43.0	3.5	1.5	44.3	41.8
Ireland	678	46.7	51.6	46.7	1.7	0.0	48.8	44.6
Israel	793	46.1	48.9	46.1	3.2	1.8	51.3	40.6
Italy	663	40.4	52.8	40.4	6.2	0.6	37.9	42.6
Japan	669	51.9	47.7	51.9	0.4	0.0	51.5	52.2
Jordan	1125	34.5	63.0	34.5	2.0	0.6	41.5	27.3
Kazakhstan	697	53.9	40.7	53.9	5.1	0.3	59.8	48.0
Korea, Rep. of	751	38.1	60.8	38.1	1.1	0.0	35.1	40.9
Kuwait	670	37.4	58.2	37.4	3.6	0.8	46.5	28.2
Lebanon	551	22.7	65.2	22.7	9.8	2.3	27.5	17.7
Lithuania	620	35.7	62.2	35.7	2.1	0.0	35.9	35.6
Malaysia	1394	39.6	55.6	39.6	4.1	0.7	39.6	39.5
Malta	543	46.9	50.2	46.9	2.9	0.0	53.1	41.2
Morocco	1730	27.2	65.0	27.2	6.5	1.3	26.8	27.5
New Zealand	1150	47.6	48.8	47.6	2.3	1.3	52.1	42.8
Norway	672	44.5	51.9	44.5	2.9	0.7	48.5	40.2
Oman	1273	41.6	55.3	41.6	2.4	0.7	52.4	31.4
Qatar	769	36.7	61.4	36.7	1.0	0.9	43.2	30.6
Russian Federation	685	44.0	52.2	44.0	3.8	0.0	42.8	45.3
Saudi Arabia	541	29.3	69.2	29.3	1.4	0.2	37.6	20.5
Singapore	873	85.3	14.5	85.3	0.1	0.1	86.5	84.1
Slovenia	607	47.9	50.6	47.9	1.5	0.0	56.0	38.8
South Africa	1795	29.9	66.6	29.9	2.1	1.4	31.5	28.1
Sweden	574	56.1	40.5	56.1	2.5	0.9	58.2	53.9
Thailand	927	22.3	71.8	22.3	5.3	0.5	23.6	20.8
Turkey	865	45.1	53.3	45.1	1.2	0.3	48.6	42.0
United Arab Emirates	2581	45.6	51.7	45.6	2.6	0.1	49.7	41.3
United States	1464	39.4	58.2	39.4	1.4	1.0	41.3	37.5
International Avg (n=39)	35955	41.3	55.0	41.3	3.1	0.7	44.3	38.3
Buenos Aires, Argentina	438	17.3	58.0	17.3	20.5	4.2	22.1	11.7
Ontario, Canada	631	45.8	48.6	45.8	4.1	1.5	48.6	42.9
Quebec, Canada	560	42.2	53.7	42.2	4.1	0.0	39.4	45.0
Norway (8)	667	29.1	65.1	29.1	5.7	0.2	30.5	27.8
Abu Dhabi, UAE	693	43.7	53.0	43.7	3.1	0.2	51.1	36.0
Dubai, UAE	869	56.2	42.2	56.2	1.4	0.2	56.1	56.2
Florida, US	286	32.2	64.0	32.2	2.7	1.0	32.5	32.0

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S13_09C (S052243C): Physics / Reasoning Type: MC Key: C
Label: Model flashlights: Comparison

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	50.2	7.2	25.3	50.2	11.3	5.6	0.4	52.0	48.3
Bahrain	706	35.7	9.8	33.9	35.7	17.5	2.9	0.3	35.4	36.0
Botswana	844	24.4	13.5	32.1	24.4	25.6	2.7	1.6	20.2	29.0
Canada	1226	52.8	6.8	22.5	52.8	13.4	3.4	1.2	53.0	52.6
Chile	695	48.7	10.7	23.9	48.7	11.9	3.4	1.4	48.3	49.0
Chinese Taipei	818	70.1	4.1	17.3	70.1	8.2	0.3	0.0	70.3	69.9
Egypt	1102	28.0	13.5	35.1	28.0	19.9	3.1	0.3	27.1	29.0
England	687	44.0	5.2	35.4	44.0	9.5	4.6	1.3	43.2	44.8
Georgia	582	29.6	13.1	25.9	29.6	21.0	8.9	1.4	28.7	30.7
Hong Kong SAR	597	54.5	3.7	32.3	54.5	8.0	1.4	0.2	50.8	58.1
Hungary	688	47.9	6.6	30.2	47.9	13.1	2.2	0.0	42.7	52.8
Iran, Islamic Rep. of	877	32.5	8.4	25.1	32.5	27.4	4.8	2.0	29.0	35.5
Ireland	678	55.7	6.3	21.3	55.7	13.9	2.8	0.0	56.7	54.6
Israel	793	43.9	7.2	28.6	43.9	15.0	3.2	2.0	43.0	44.9
Italy	663	49.9	5.4	16.6	49.9	23.3	4.2	0.6	49.8	50.0
Japan	669	43.5	6.8	37.9	43.5	11.1	0.7	0.0	42.3	44.8
Jordan	1125	33.4	11.2	28.8	33.4	21.6	4.5	0.6	34.5	32.4
Kazakhstan	698	35.7	20.5	21.9	35.7	14.8	6.8	0.3	30.4	41.1
Korea, Rep. of	751	53.6	3.8	30.5	53.6	11.3	0.8	0.0	53.2	53.9
Kuwait	672	25.3	18.7	32.6	25.3	17.0	5.6	0.8	22.4	28.2
Lebanon	548	26.3	11.3	34.0	26.3	8.4	17.4	2.7	26.2	26.3
Lithuania	620	62.0	5.3	19.1	62.0	12.1	1.4	0.1	60.9	63.1
Malaysia	1394	41.1	9.0	37.0	41.1	10.2	1.9	0.9	38.9	43.1
Malta	543	44.3	10.8	31.6	44.3	9.3	3.9	0.0	42.4	46.1
Morocco	1729	24.1	10.6	41.5	24.1	16.8	5.4	1.5	20.1	27.5
New Zealand	1150	52.0	7.7	23.1	52.0	13.3	2.5	1.3	53.2	50.8
Norway	672	46.7	7.4	28.5	46.7	11.1	5.7	0.7	46.3	47.0
Oman	1273	27.3	11.9	36.5	27.3	20.8	2.6	0.9	24.8	29.7
Qatar	769	37.0	11.0	34.7	37.0	14.5	1.7	1.0	33.4	40.4
Russian Federation	685	52.1	7.1	24.9	52.1	12.3	3.5	0.2	46.5	57.8
Saudi Arabia	540	33.6	15.3	29.8	33.6	19.3	1.8	0.2	29.8	37.6
Singapore	873	43.2	7.8	41.8	43.2	7.1	0.0	0.1	44.2	42.2
Slovenia	607	53.4	5.8	23.7	53.4	14.2	2.9	0.0	52.2	54.8
South Africa	1795	20.2	22.2	32.1	20.2	20.8	3.1	1.7	19.7	20.6
Sweden	574	54.0	8.4	25.1	54.0	7.6	3.8	1.0	57.4	50.5
Thailand	927	35.1	11.2	25.3	35.1	25.4	2.3	0.7	32.5	38.0
Turkey	865	35.4	8.3	37.9	35.4	17.5	0.5	0.3	31.4	39.1
United Arab Emirates	2580	39.0	13.2	31.3	39.0	13.5	2.7	0.2	37.1	41.0
United States	1464	51.9	6.6	21.9	51.9	16.3	2.3	1.0	53.2	50.5
International Avg (n=39)	35951	42.0	9.6	29.2	42.0	15.0	3.5	0.7	40.6	43.4
Buenos Aires, Argentina	425	26.4	8.1	14.7	26.4	22.6	24.4	3.8	27.5	25.0
Ontario, Canada	631	51.4	6.9	24.3	51.4	12.3	3.2	1.9	54.8	47.7
Quebec, Canada	555	56.6	6.5	18.1	56.6	14.2	4.5	0.0	52.8	60.3
Norway (8)	667	51.1	8.9	23.9	51.1	11.0	4.8	0.2	55.2	47.1
Abu Dhabi, UAE	693	32.4	17.0	33.6	32.4	13.6	3.2	0.2	30.9	34.0
Dubai, UAE	869	49.9	7.5	28.9	49.9	12.0	1.4	0.2	47.6	52.4
Florida, US	286	51.6	7.5	21.8	51.6	15.5	2.5	1.0	49.3	53.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_10 (S052206): Physics / Knowing Type: MC Key: A
Label: Two bar magnets repelling

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	38.4	38.4	22.0	31.7	4.6	2.4	0.8	37.5	39.4
Bahrain	706	39.4	39.4	15.2	35.4	7.8	1.5	0.7	41.5	37.3
Botswana	844	43.8	43.8	20.7	23.2	8.3	1.6	2.4	45.3	42.3
Canada	1230	33.9	33.9	22.7	35.3	3.8	2.6	1.7	31.9	35.9
Chile	695	43.6	43.6	17.4	27.3	7.1	3.2	1.4	41.6	45.2
Chinese Taipei	818	48.9	48.9	7.5	41.1	2.3	0.3	0.0	48.3	49.4
Egypt	1102	30.5	30.5	20.1	33.7	13.1	2.1	0.6	31.1	29.8
England	687	32.0	32.0	22.7	37.0	3.8	3.0	1.3	32.1	32.0
Georgia	582	42.5	42.5	24.8	20.2	8.2	2.8	1.5	38.9	46.3
Hong Kong SAR	597	44.3	44.3	6.3	45.4	3.2	0.6	0.2	39.0	49.6
Hungary	688	71.9	71.9	9.9	13.5	3.8	0.9	0.0	69.7	74.0
Iran, Islamic Rep. of	877	66.6	66.6	10.3	16.2	3.1	1.6	2.2	69.0	64.5
Ireland	678	48.2	48.2	21.3	24.4	4.7	1.3	0.2	45.8	50.7
Israel	793	54.1	54.1	17.8	12.9	10.1	2.8	2.2	52.6	55.7
Italy	663	53.4	53.4	21.9	16.7	5.9	1.6	0.6	50.5	55.9
Japan	669	79.6	79.6	6.1	11.3	2.2	0.4	0.3	81.8	77.3
Jordan	1125	34.5	34.5	12.1	42.2	7.7	2.6	0.8	31.2	37.9
Kazakhstan	698	68.7	68.7	13.3	12.8	3.9	0.9	0.4	71.3	66.0
Korea, Rep. of	751	74.8	74.8	17.3	5.1	2.4	0.5	0.0	77.0	72.7
Kuwait	672	36.2	36.2	17.0	35.0	7.8	3.3	0.8	38.7	33.5
Lebanon	546	31.6	31.6	20.2	18.8	16.7	8.6	4.1	36.3	26.7
Lithuania	620	54.6	54.6	22.6	16.3	5.4	1.0	0.1	54.7	54.5
Malaysia	1394	56.9	56.9	13.4	22.1	4.8	1.2	1.6	57.3	56.6
Malta	543	27.8	27.8	27.0	32.9	8.6	3.8	0.0	30.1	25.6
Morocco	1730	18.6	18.6	25.6	35.4	14.9	3.7	1.7	16.5	20.4
New Zealand	1150	24.5	24.5	29.4	36.3	5.5	2.8	1.4	20.5	28.8
Norway	672	52.7	52.7	23.1	16.8	3.4	3.3	0.8	52.8	52.4
Oman	1273	42.9	42.9	18.8	19.1	16.6	1.5	1.2	42.4	43.3
Qatar	769	44.1	44.1	16.3	32.6	4.6	1.4	1.0	43.3	44.8
Russian Federation	685	86.6	86.6	4.0	5.9	1.6	1.7	0.2	83.8	89.4
Saudi Arabia	542	21.6	21.6	24.2	33.1	19.9	1.1	0.2	20.0	23.2
Singapore	873	86.0	86.0	3.6	8.1	2.0	0.3	0.1	86.5	85.4
Slovenia	607	43.5	43.5	24.3	27.4	2.1	2.6	0.1	38.9	48.5
South Africa	1795	29.2	29.2	26.9	24.5	14.6	2.7	2.1	27.9	30.6
Sweden	574	68.3	68.3	17.2	7.4	3.8	2.0	1.2	68.4	68.3
Thailand	927	48.4	48.4	23.3	16.3	10.1	1.0	0.8	47.1	49.9
Turkey	865	73.0	73.0	7.7	13.0	5.9	0.1	0.3	74.2	71.9
United Arab Emirates	2580	46.8	46.8	17.5	26.1	6.0	3.4	0.2	45.6	48.0
United States	1464	52.4	52.4	17.5	23.4	3.0	2.3	1.4	48.9	56.1
International Avg (n=39)	35956	48.6	48.6	17.7	24.0	6.8	2.1	0.9	47.9	49.2
Buenos Aires, Argentina	432	32.1	32.1	20.0	21.0	14.8	7.7	4.5	26.9	38.1
Ontario, Canada	630	29.5	29.5	25.0	38.2	2.6	2.2	2.4	27.8	31.4
Quebec, Canada	560	42.0	42.0	16.9	30.8	6.1	3.3	0.8	39.7	44.4
Norway (8)	667	41.3	41.3	32.2	17.0	6.4	2.9	0.2	39.5	43.1
Abu Dhabi, UAE	693	41.2	41.2	18.7	28.1	7.0	4.7	0.2	40.3	42.2
Dubai, UAE	869	59.6	59.6	15.7	19.7	3.2	1.5	0.3	56.2	63.1
Florida, US	286	46.3	46.3	19.2	27.0	3.8	2.7	1.0	43.9	48.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_11A (S052112A): Earth Science / Applying Type: MC Key: D
Label: Planets: Shortest day length

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	70.5	14.6	3.8	9.2	70.5	1.0	0.8	70.2	70.8
Bahrain	706	54.0	22.8	10.5	10.3	54.0	1.7	0.7	61.5	46.7
Botswana	844	56.3	19.7	10.2	9.2	56.3	1.6	3.0	59.0	53.5
Canada	1231	67.2	14.6	5.9	9.8	67.2	0.7	1.8	65.1	69.4
Chile	695	70.8	13.1	5.1	7.2	70.8	2.4	1.4	69.7	71.8
Chinese Taipei	818	72.2	12.7	4.8	10.1	72.2	0.3	0.0	70.2	74.0
Egypt	1102	37.0	21.4	25.1	13.3	37.0	2.4	0.8	42.9	30.3
England	687	66.9	17.1	4.3	7.9	66.9	2.1	1.7	70.5	63.0
Georgia	582	47.1	22.4	7.8	18.5	47.1	2.2	1.9	51.0	43.1
Hong Kong SAR	597	76.8	9.3	5.2	8.1	76.8	0.5	0.2	73.1	80.4
Hungary	688	67.6	17.1	4.4	10.1	67.6	0.8	0.0	66.0	69.1
Iran, Islamic Rep. of	877	47.4	25.6	12.1	10.8	47.4	1.8	2.2	48.6	46.4
Ireland	678	67.9	15.2	5.4	10.0	67.9	1.3	0.2	68.6	67.3
Israel	793	61.2	18.1	8.8	7.4	61.2	2.2	2.2	63.3	59.0
Italy	663	69.1	16.8	4.6	7.5	69.1	1.2	0.6	63.9	74.0
Japan	669	66.0	20.5	3.6	9.2	66.0	0.4	0.3	65.0	67.0
Jordan	1125	50.5	19.9	15.7	10.9	50.5	2.0	1.0	54.3	46.7
Kazakhstan	697	46.2	31.9	4.8	15.3	46.2	1.3	0.5	50.1	42.3
Korea, Rep. of	751	74.4	11.7	5.2	8.3	74.4	0.5	0.0	73.9	74.8
Kuwait	671	47.5	21.2	13.3	12.1	47.5	5.1	0.8	52.3	42.5
Lebanon	551	35.9	24.4	15.9	9.8	35.9	9.8	4.2	34.9	36.8
Lithuania	620	69.0	14.9	6.3	9.2	69.0	0.5	0.1	68.3	69.7
Malaysia	1394	52.1	18.2	6.3	20.5	52.1	1.2	1.8	50.7	53.4
Malta	543	64.6	17.4	5.2	11.0	64.6	1.8	0.0	68.6	61.0
Morocco	1730	40.2	21.6	18.3	14.7	40.2	3.5	1.8	43.0	37.8
New Zealand	1150	66.9	14.5	7.2	6.7	66.9	3.1	1.5	68.9	64.9
Norway	672	67.4	17.5	5.3	7.6	67.4	1.4	0.8	66.2	68.6
Oman	1260	45.5	24.0	15.0	12.3	45.5	1.9	1.3	48.0	43.2
Qatar	769	56.7	18.6	8.9	12.3	56.7	2.5	1.1	57.2	56.2
Russian Federation	685	67.2	14.7	6.4	8.4	67.2	3.0	0.2	68.6	65.8
Saudi Arabia	542	52.8	21.8	11.9	10.7	52.8	2.6	0.2	57.0	48.4
Singapore	873	74.1	13.4	4.4	7.8	74.1	0.3	0.1	71.9	76.1
Slovenia	607	76.6	12.2	2.9	7.8	76.6	0.5	0.1	80.8	71.9
South Africa	1795	57.7	21.3	9.3	7.9	57.7	1.6	2.3	60.2	55.0
Sweden	574	74.5	13.8	3.8	4.7	74.5	1.7	1.5	78.3	70.5
Thailand	927	47.5	25.7	16.1	8.4	47.5	1.3	1.0	48.7	46.1
Turkey	865	56.1	22.2	10.1	10.8	56.1	0.5	0.3	55.2	56.9
United Arab Emirates	2581	58.5	18.2	10.2	10.9	58.5	2.0	0.2	59.9	57.0
United States	1464	74.0	11.9	3.7	7.9	74.0	0.9	1.4	74.0	73.9
International Avg (n=39)	35948	60.4	18.3	8.4	10.1	60.4	1.8	1.0	61.5	59.1
Buenos Aires, Argentina	434	39.1	17.8	7.4	10.9	39.1	20.1	4.6	37.6	40.9
Ontario, Canada	631	65.5	15.2	5.7	10.7	65.5	0.5	2.4	64.8	66.2
Quebec, Canada	560	69.9	12.5	7.2	9.2	69.9	0.5	0.8	65.2	74.5
Norway (8)	667	69.6	14.8	6.0	7.2	69.6	2.2	0.2	69.2	69.9
Abu Dhabi, UAE	693	55.7	18.4	13.2	10.7	55.7	1.8	0.3	60.2	51.0
Dubai, UAE	869	68.6	14.6	6.0	9.2	68.6	1.3	0.3	68.1	69.1
Florida, US	286	76.9	13.8	4.1	3.7	76.9	0.5	1.0	80.4	73.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S13_11B (S052112B): Earth Science / Reasoning Type: CR 1 Point
Label: Planets: Distance from Sun

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	29.9	44.4	29.9	24.7	0.9	28.1	31.8
Bahrain	706	24.4	47.0	24.4	27.1	1.5	31.2	17.8
Botswana	844	12.3	64.5	12.3	19.2	3.9	11.8	12.9
Canada	1231	37.1	49.3	37.1	11.5	2.1	36.5	37.6
Chile	695	24.5	36.0	24.5	37.6	1.9	22.1	26.6
Chinese Taipei	818	33.5	44.6	33.5	21.8	0.1	32.1	34.8
Egypt	1101	6.0	59.5	6.0	33.2	1.2	8.3	3.4
England	687	37.1	39.1	37.1	21.3	2.4	38.1	36.2
Georgia	582	19.2	36.3	19.2	42.2	2.3	16.9	21.6
Hong Kong SAR	597	30.6	54.8	30.6	14.4	0.2	27.7	33.5
Hungary	688	41.8	32.9	41.8	25.1	0.1	39.5	43.9
Iran, Islamic Rep. of	877	23.1	43.6	23.1	30.7	2.6	23.8	22.6
Ireland	678	30.6	45.7	30.6	23.4	0.3	36.6	24.4
Israel	793	38.1	39.1	38.1	19.9	2.9	40.0	36.2
Italy	663	26.9	37.6	26.9	34.5	1.0	26.2	27.5
Japan	669	48.1	43.4	48.1	8.1	0.4	49.2	47.0
Jordan	1125	15.9	62.8	15.9	20.1	1.1	19.4	12.4
Kazakhstan	698	18.9	52.0	18.9	27.9	1.2	19.0	18.8
Korea, Rep. of	751	69.4	25.4	69.4	5.2	0.0	71.5	67.5
Kuwait	671	14.4	58.5	14.4	26.0	1.0	16.2	12.4
Lebanon	552	14.4	39.9	14.4	40.7	5.0	16.0	12.8
Lithuania	620	40.8	39.8	40.8	19.0	0.4	44.3	37.4
Malaysia	1394	32.3	51.1	32.3	14.5	2.1	36.1	28.6
Malta	543	21.8	44.9	21.8	33.3	0.0	23.4	20.3
Morocco	1730	11.0	53.2	11.0	33.3	2.5	12.3	9.9
New Zealand	1150	31.0	42.2	31.0	23.0	3.7	30.6	31.5
Norway	672	22.2	38.9	22.2	37.7	1.1	21.0	23.5
Oman	1273	11.8	69.2	11.8	17.3	1.7	15.2	8.6
Qatar	769	23.8	50.6	23.8	24.0	1.6	29.4	18.5
Russian Federation	685	33.9	33.1	33.9	32.6	0.4	32.4	35.4
Saudi Arabia	542	14.4	51.8	14.4	33.5	0.3	20.2	8.2
Singapore	873	46.9	48.4	46.9	4.4	0.2	49.2	44.6
Slovenia	607	42.7	43.5	42.7	13.7	0.1	46.3	38.7
South Africa	1795	5.9	71.6	5.9	19.2	3.4	5.8	6.0
Sweden	574	41.3	37.1	41.3	19.8	1.8	46.6	35.8
Thailand	927	9.4	52.1	9.4	36.9	1.6	8.7	10.2
Turkey	865	39.4	39.3	39.4	20.9	0.3	42.4	36.7
United Arab Emirates	2580	24.8	54.9	24.8	19.8	0.5	26.5	23.0
United States	1464	24.9	67.7	24.9	5.6	1.7	25.6	24.4
International Avg (n=39)	35961	27.6	47.3	27.6	23.7	1.4	28.9	26.2
Buenos Aires, Argentina	438	9.5	15.6	9.5	68.2	6.7	10.0	9.0
Ontario, Canada	631	34.2	50.8	34.2	12.4	2.6	32.9	35.6
Quebec, Canada	560	45.8	44.8	45.8	8.5	0.9	44.3	47.4
Norway (8)	667	19.4	39.5	19.4	40.0	1.1	19.8	19.0
Abu Dhabi, UAE	693	24.1	56.3	24.1	19.0	0.6	27.0	21.1
Dubai, UAE	869	33.2	51.6	33.2	14.5	0.7	32.0	34.4
Florida, US	286	21.9	68.4	21.9	8.3	1.4	26.2	17.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S13_12 (S052294): Earth Science / Knowing Type: MC Key: A
Label: Temperature outside an airplane

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1472	72.6	72.6	11.4	10.4	2.8	1.3	1.5	68.6	76.9
Bahrain	706	47.8	47.8	16.9	27.1	5.9	0.5	1.8	50.1	45.6
Botswana	842	23.2	23.2	34.7	29.4	5.5	1.8	5.4	23.7	22.8
Canada	1227	75.8	75.8	11.1	7.7	2.4	0.3	2.6	74.4	77.3
Chile	695	63.7	63.7	19.0	9.7	3.8	1.6	2.2	62.1	65.0
Chinese Taipei	818	86.5	86.5	6.4	5.6	1.3	0.2	0.1	85.2	87.7
Egypt	1102	38.5	38.5	21.2	31.0	6.7	1.2	1.5	38.4	38.6
England	687	69.5	69.5	14.4	9.2	3.2	1.2	2.5	64.8	74.5
Georgia	582	48.0	48.0	16.7	23.8	7.6	0.8	3.0	45.0	51.2
Hong Kong SAR	597	83.0	83.0	6.1	7.6	2.9	0.2	0.2	82.0	83.9
Hungary	688	72.2	72.2	13.7	10.4	1.5	1.8	0.4	65.8	78.1
Iran, Islamic Rep. of	877	48.5	48.5	20.1	18.0	8.8	1.0	3.7	47.2	49.6
Ireland	678	80.4	80.4	7.9	8.1	1.0	2.1	0.4	81.4	79.4
Israel	793	71.7	71.7	9.3	12.9	2.0	0.8	3.4	73.1	70.2
Italy	663	73.4	73.4	13.6	7.9	2.5	0.9	1.7	76.2	70.8
Japan	669	82.7	82.7	4.8	9.6	2.2	0.3	0.4	80.7	84.9
Jordan	1125	45.5	45.5	19.8	26.1	5.4	1.5	1.7	46.5	44.5
Kazakhstan	698	62.2	62.2	12.9	15.4	7.0	0.9	1.6	60.2	64.1
Korea, Rep. of	751	86.3	86.3	4.5	7.6	1.4	0.2	0.0	84.3	88.1
Kuwait	673	41.5	41.5	23.2	27.8	4.2	2.0	1.3	42.5	40.9
Lebanon	543	25.8	25.8	25.6	26.1	10.0	5.9	6.7	25.8	25.8
Lithuania	620	72.4	72.4	7.7	15.1	2.8	1.5	0.6	72.4	72.4
Malaysia	1394	29.3	29.3	26.2	32.2	8.9	0.9	2.4	27.2	31.4
Malta	543	54.0	54.0	16.4	21.9	5.7	1.8	0.2	50.5	57.2
Morocco	1730	41.3	41.3	24.8	23.7	4.4	2.3	3.5	43.9	39.2
New Zealand	1150	65.2	65.2	15.0	11.1	3.6	1.0	4.1	62.5	68.1
Norway	672	83.0	83.0	11.7	2.1	1.0	0.8	1.4	82.9	83.1
Oman	1273	54.4	54.4	11.7	26.8	4.5	0.6	2.0	56.3	52.6
Qatar	769	55.3	55.3	15.2	22.7	4.4	0.6	1.8	57.1	53.7
Russian Federation	685	86.5	86.5	3.5	5.7	1.9	1.4	1.0	86.8	86.2
Saudi Arabia	542	42.4	42.4	20.3	29.5	5.9	1.4	0.6	41.1	43.7
Singapore	873	72.7	72.7	7.5	12.7	6.9	0.0	0.2	69.3	76.0
Slovenia	607	80.1	80.1	7.4	5.6	3.5	2.4	0.9	79.6	80.7
South Africa	1795	20.9	20.9	26.0	37.3	10.7	0.9	4.1	20.3	21.6
Sweden	574	78.8	78.8	7.7	8.6	1.4	1.1	2.4	76.2	81.6
Thailand	927	56.1	56.1	11.5	25.2	5.2	0.1	2.0	59.5	52.4
Turkey	865	59.9	59.9	16.1	16.8	6.8	0.2	0.3	60.9	59.0
United Arab Emirates	2581	57.6	57.6	13.2	21.4	5.8	1.3	0.6	58.6	56.6
United States	1464	75.0	75.0	8.6	9.7	3.4	1.4	1.9	74.2	76.2
International Avg (n=39)	35950	61.1	61.1	14.5	16.9	4.5	1.2	1.8	60.4	61.8
Buenos Aires, Argentina	432	61.0	61.0	10.9	11.0	2.9	5.0	9.2	60.1	62.0
Ontario, Canada	630	71.5	71.5	14.2	7.9	2.8	0.2	3.4	68.9	74.3
Quebec, Canada	557	85.9	85.9	5.3	6.3	1.5	0.1	0.9	86.2	85.7
Norway (8)	667	80.2	80.2	11.7	2.9	0.7	2.2	2.4	77.4	82.9
Abu Dhabi, UAE	693	55.7	55.7	12.0	24.4	6.3	1.0	0.6	58.6	52.7
Dubai, UAE	869	67.5	67.5	9.3	17.8	4.1	0.5	0.9	65.6	69.4
Florida, US	286	69.1	69.1	9.1	12.7	5.4	1.8	1.8	65.4	72.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_01A (S062091A): Biology / Applying Type: MC Key: B
Label: Producers in food web

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	81.8	5.0	81.8	4.0	8.4	0.7	0.1	80.9	82.6
Bahrain	698	77.3	4.7	77.3	4.9	12.4	0.4	0.2	82.8	72.0
Botswana	848	77.9	4.8	77.9	4.1	12.9	0.3	0.0	79.8	75.9
Canada	1242	82.3	4.0	82.3	4.6	8.4	0.7	0.0	82.2	82.3
Chile	690	78.8	3.3	78.8	7.2	9.2	1.3	0.2	78.3	79.2
Chinese Taipei	821	94.7	1.6	94.7	1.9	1.7	0.1	0.0	93.2	96.2
Egypt	1114	59.1	6.4	59.1	16.6	16.4	1.4	0.1	58.2	60.2
England	675	85.7	4.0	85.7	3.7	5.5	0.9	0.2	85.5	85.9
Georgia	576	66.0	7.5	66.0	6.4	16.2	4.0	0.0	67.4	64.2
Hong Kong SAR	592	93.0	2.8	93.0	1.3	2.5	0.1	0.2	92.0	94.0
Hungary	682	83.1	4.2	83.1	5.4	6.0	1.3	0.0	82.0	84.2
Iran, Islamic Rep. of	880	76.7	3.7	76.7	7.4	10.9	1.0	0.3	78.0	75.6
Ireland	680	72.6	4.6	72.6	9.3	13.0	0.5	0.0	73.6	71.6
Israel	790	83.1	4.6	83.1	2.7	8.0	1.1	0.5	84.0	82.2
Italy	648	75.4	1.8	75.4	6.3	14.3	2.2	0.0	72.4	78.5
Japan	671	85.3	2.3	85.3	3.2	8.8	0.3	0.1	85.4	85.2
Jordan	1133	82.9	4.0	82.9	5.2	7.4	0.4	0.0	86.8	79.2
Kazakhstan	704	70.3	6.7	70.3	7.1	14.8	1.0	0.1	69.6	71.1
Korea, Rep. of	762	88.7	2.8	88.7	1.0	6.6	0.9	0.0	84.6	92.3
Kuwait	659	69.2	8.2	69.2	6.9	12.7	2.6	0.4	72.5	65.8
Lebanon	536	55.6	7.1	55.6	8.2	19.6	8.2	1.3	52.3	59.3
Lithuania	621	91.6	2.0	91.6	1.6	4.4	0.3	0.0	90.0	93.1
Malaysia	1383	86.8	3.2	86.8	1.9	7.9	0.1	0.0	89.4	83.9
Malta	540	79.2	4.3	79.2	4.1	11.5	0.9	0.0	79.8	78.7
Morocco	1899	72.3	4.5	72.3	7.5	13.0	2.6	0.1	72.2	72.4
New Zealand	1149	81.9	4.5	81.9	5.3	7.1	0.8	0.4	80.5	83.4
Norway	666	85.2	4.1	85.2	2.8	7.4	0.4	0.2	84.3	86.0
Oman	1287	77.6	3.2	77.6	5.3	13.6	0.3	0.1	82.5	72.8
Qatar	765	76.8	5.0	76.8	4.6	12.4	0.8	0.3	78.3	75.4
Russian Federation	685	74.1	5.6	74.1	5.8	10.6	3.8	0.0	78.4	69.5
Saudi Arabia	544	60.0	3.0	60.0	14.7	21.3	1.1	0.0	61.4	58.6
Singapore	875	93.9	2.9	93.9	1.0	2.2	0.0	0.0	94.4	93.3
Slovenia	605	92.1	2.4	92.1	1.9	2.8	0.8	0.0	91.4	93.0
South Africa	1787	66.1	5.8	66.1	6.8	20.1	1.3	0.0	67.0	65.3
Sweden	583	81.8	6.9	81.8	2.6	6.5	2.0	0.2	79.7	84.2
Thailand	929	83.8	3.7	83.8	1.1	11.1	0.3	0.0	84.9	82.6
Turkey	865	74.0	5.2	74.0	5.7	15.0	0.1	0.0	74.8	73.2
United Arab Emirates	2574	75.7	5.1	75.7	5.4	11.8	2.0	0.0	77.1	74.2
United States	1457	89.1	2.6	89.1	2.3	5.5	0.5	0.1	87.2	91.0
International Avg (n=39)	36070	79.0	4.3	79.0	5.1	10.3	1.2	0.1	79.4	78.7
Buenos Aires, Argentina	439	66.7	2.4	66.7	7.0	17.3	5.7	0.8	67.9	65.7
Ontario, Canada	639	82.3	3.7	82.3	4.2	9.4	0.4	0.0	82.4	82.3
Quebec, Canada	563	79.7	5.3	79.7	5.9	7.7	1.4	0.0	78.7	80.8
Norway (8)	689	79.8	6.0	79.8	4.4	8.7	0.8	0.3	78.3	81.3
Abu Dhabi, UAE	690	72.4	6.7	72.4	6.2	13.6	1.0	0.1	74.6	70.3
Dubai, UAE	871	85.6	1.9	85.6	2.1	8.9	1.4	0.0	84.7	86.7
Florida, US	291	84.5	2.2	84.5	3.5	9.1	0.3	0.3	85.7	83.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_01B (S062091B): Biology / Applying Type: MC Key: C
Label: Eat only plants in food web

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	82.9	9.4	4.9	82.9	1.0	1.7	0.2	84.3	81.4
Bahrain	698	71.2	15.3	10.6	71.2	1.9	0.7	0.2	72.9	69.6
Botswana	848	73.2	14.8	8.3	73.2	3.0	0.7	0.0	71.8	74.8
Canada	1244	82.5	9.8	6.1	82.5	1.4	0.2	0.0	81.8	83.2
Chile	690	82.4	5.7	9.1	82.4	1.1	1.6	0.2	83.4	81.3
Chinese Taipei	821	84.6	10.2	4.6	84.6	0.3	0.3	0.0	84.0	85.2
Egypt	1114	57.3	12.7	20.9	57.3	7.7	1.2	0.1	54.7	60.2
England	675	81.5	10.6	5.7	81.5	1.7	0.3	0.2	83.6	79.3
Georgia	576	77.7	9.7	10.2	77.7	1.9	0.6	0.0	79.4	75.7
Hong Kong SAR	592	87.9	6.9	3.0	87.9	2.1	0.0	0.2	86.3	89.3
Hungary	682	82.2	10.5	6.3	82.2	1.0	0.1	0.0	79.8	84.3
Iran, Islamic Rep. of	880	72.8	11.3	12.1	72.8	1.2	2.3	0.3	68.0	77.1
Ireland	680	73.6	18.2	6.6	73.6	0.7	0.9	0.0	72.6	74.6
Israel	790	84.7	7.5	5.4	84.7	1.0	0.8	0.7	85.9	83.5
Italy	648	79.8	8.7	9.5	79.8	1.5	0.5	0.0	78.5	81.2
Japan	671	80.0	13.1	5.8	80.0	0.6	0.4	0.1	81.5	78.3
Jordan	1133	74.6	7.2	14.8	74.6	2.6	0.8	0.0	77.8	71.4
Kazakhstan	704	64.1	19.7	14.0	64.1	1.5	0.6	0.1	57.2	70.6
Korea, Rep. of	762	84.3	10.7	3.5	84.3	0.3	1.1	0.0	85.5	83.3
Kuwait	660	60.3	14.0	19.9	60.3	4.3	1.1	0.4	59.7	60.9
Lebanon	535	58.8	11.3	8.1	58.8	16.3	4.2	1.3	60.8	56.6
Lithuania	621	83.8	10.3	5.0	83.8	0.6	0.3	0.0	84.8	83.0
Malaysia	1383	81.9	12.5	3.6	81.9	1.7	0.3	0.0	83.9	79.8
Malta	540	80.0	11.8	5.8	80.0	1.9	0.5	0.0	80.3	79.7
Morocco	1899	72.8	9.2	13.8	72.8	2.5	1.7	0.1	75.1	70.7
New Zealand	1149	82.7	10.6	5.0	82.7	0.8	0.5	0.4	84.9	80.4
Norway	666	81.4	10.7	6.1	81.4	0.6	0.9	0.2	81.3	81.6
Oman	1287	77.2	10.8	8.6	77.2	2.5	0.9	0.1	79.3	75.2
Qatar	765	78.3	9.7	8.6	78.3	2.5	0.5	0.4	82.4	74.3
Russian Federation	685	76.9	12.9	9.7	76.9	0.0	0.5	0.0	77.0	76.8
Saudi Arabia	544	68.0	12.9	12.8	68.0	5.6	0.6	0.0	69.1	66.9
Singapore	875	92.0	5.8	1.9	92.0	0.3	0.0	0.0	93.6	90.4
Slovenia	605	86.8	8.0	4.2	86.8	0.5	0.5	0.0	87.1	86.5
South Africa	1787	65.1	19.4	10.0	65.1	4.7	0.8	0.0	62.8	67.6
Sweden	583	75.2	8.4	12.4	75.2	0.5	3.1	0.2	75.1	75.3
Thailand	929	86.0	7.6	3.5	86.0	2.4	0.4	0.1	87.0	84.9
Turkey	865	71.0	20.7	5.7	71.0	2.5	0.1	0.0	69.8	72.0
United Arab Emirates	2574	78.3	9.3	9.0	78.3	1.9	1.3	0.0	81.6	75.1
United States	1457	85.7	8.5	4.2	85.7	0.3	1.1	0.1	85.5	86.1
International Avg (n=39)	36072	77.4	11.2	8.2	77.4	2.2	0.9	0.1	77.7	77.1
Buenos Aires, Argentina	439	64.3	16.4	12.4	64.3	2.5	3.6	0.8	65.7	62.4
Ontario, Canada	640	85.1	8.1	5.5	85.1	0.9	0.4	0.0	83.8	86.7
Quebec, Canada	564	76.9	14.4	6.0	76.9	2.6	0.1	0.0	76.4	77.5
Norway (8)	689	80.8	10.6	6.6	80.8	0.1	1.6	0.3	80.7	80.9
Abu Dhabi, UAE	690	77.3	9.3	9.8	77.3	1.9	1.6	0.1	81.2	73.4
Dubai, UAE	871	86.6	6.2	5.3	86.6	1.6	0.3	0.0	86.2	87.0
Florida, US	291	79.1	12.5	7.0	79.1	0.7	0.3	0.3	84.4	73.9

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_02 (S062100): Biology / Applying Type: CR 1 Point
Label: Cell structure of fossils

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	48.5	48.8	48.5	2.4	0.3	49.3	47.5
Bahrain	698	61.7	36.0	61.7	2.1	0.2	71.9	51.8
Botswana	848	35.5	63.4	35.5	1.1	0.0	41.7	28.7
Canada	1245	50.4	45.0	50.4	4.6	0.0	51.5	49.2
Chile	690	22.6	67.9	22.6	9.3	0.2	25.2	20.1
Chinese Taipei	821	79.4	20.6	79.4	0.0	0.0	80.2	78.6
Egypt	1114	24.9	71.5	24.9	3.5	0.1	29.4	19.9
England	675	45.9	48.3	45.9	5.6	0.2	45.1	46.6
Georgia	576	26.4	67.0	26.4	6.7	0.0	27.0	25.5
Hong Kong SAR	592	57.0	42.8	57.0	0.0	0.2	56.3	57.6
Hungary	682	9.8	85.3	9.8	4.9	0.0	10.5	9.2
Iran, Islamic Rep. of	880	27.5	67.5	27.5	4.7	0.3	29.5	25.7
Ireland	680	48.4	48.3	48.4	2.6	0.6	52.0	45.0
Israel	790	43.6	50.6	43.6	5.0	0.7	48.5	38.8
Italy	648	28.4	58.6	28.4	13.0	0.0	26.0	30.9
Japan	671	76.4	23.5	76.4	0.0	0.1	77.8	74.9
Jordan	1133	37.4	60.7	37.4	2.0	0.0	47.0	27.9
Kazakhstan	704	44.3	49.6	44.3	6.0	0.1	48.2	40.7
Korea, Rep. of	762	61.3	38.0	61.3	0.7	0.0	57.6	64.5
Kuwait	660	39.3	57.1	39.3	3.2	0.4	47.7	30.7
Lebanon	542	24.1	63.9	24.1	10.8	1.3	26.5	21.5
Lithuania	621	43.0	53.1	43.0	3.9	0.0	47.8	38.6
Malaysia	1383	47.3	45.6	47.3	7.1	0.0	52.7	41.5
Malta	540	45.0	51.4	45.0	3.5	0.0	48.9	41.2
Morocco	1899	14.2	76.4	14.2	9.4	0.1	16.5	12.1
New Zealand	1149	48.3	47.6	48.3	3.7	0.4	53.4	42.8
Norway	666	21.0	73.2	21.0	5.6	0.2	20.9	21.0
Oman	1280	51.4	46.6	51.4	2.0	0.1	63.7	39.4
Qatar	765	49.1	46.4	49.1	4.1	0.4	61.1	37.4
Russian Federation	685	41.9	54.6	41.9	3.5	0.0	47.6	35.8
Saudi Arabia	544	36.6	60.4	36.6	3.0	0.0	47.3	24.9
Singapore	875	78.4	21.4	78.4	0.2	0.0	80.8	76.0
Slovenia	605	61.6	36.2	61.6	2.1	0.0	68.2	53.9
South Africa	1787	30.7	65.9	30.7	3.3	0.1	36.9	24.2
Sweden	583	26.0	69.2	26.0	4.6	0.2	29.1	22.6
Thailand	929	28.9	66.9	28.9	4.1	0.1	32.1	25.3
Turkey	865	31.7	64.5	31.7	3.8	0.0	37.9	26.3
United Arab Emirates	2574	59.0	36.8	59.0	4.0	0.2	66.9	51.1
United States	1457	61.4	36.8	61.4	1.5	0.3	60.6	62.2
International Avg (n=39)	36073	42.8	53.0	42.8	4.0	0.2	46.7	38.8
Buenos Aires, Argentina	440	12.2	65.3	12.2	21.4	1.2	13.6	10.5
Ontario, Canada	640	54.0	42.0	54.0	4.0	0.0	54.7	53.3
Quebec, Canada	565	45.2	49.9	45.2	4.9	0.0	47.0	43.3
Norway (8)	689	23.9	71.0	23.9	4.8	0.3	24.8	23.1
Abu Dhabi, UAE	690	57.6	39.3	57.6	3.0	0.1	68.3	46.7
Dubai, UAE	871	67.4	29.1	67.4	3.5	0.0	70.5	64.2
Florida, US	291	52.6	46.2	52.6	0.9	0.3	52.9	52.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_03 (S062097): Biology / Reasoning Type: MC Key: A
Label: Kate's heart and breathing rates

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	65.4	65.4	14.4	14.6	4.0	1.2	0.3	68.6	61.8
Bahrain	698	34.5	34.5	22.9	30.3	9.1	3.1	0.2	36.6	32.4
Botswana	848	32.2	32.2	18.0	41.2	4.7	3.8	0.0	34.4	29.8
Canada	1245	58.0	58.0	16.0	17.5	5.2	3.2	0.1	56.7	59.4
Chile	690	48.5	48.5	18.4	22.6	5.8	4.5	0.2	53.5	43.7
Chinese Taipei	821	74.1	74.1	10.5	12.5	2.5	0.3	0.0	75.3	72.9
Egypt	1114	25.7	25.7	21.2	35.0	9.9	7.9	0.3	28.0	23.2
England	675	60.9	60.9	14.5	18.3	4.4	1.6	0.2	61.7	60.1
Georgia	576	35.7	35.7	30.8	17.8	7.5	7.7	0.5	30.0	42.5
Hong Kong SAR	592	71.1	71.1	12.5	12.6	2.1	1.5	0.2	73.5	68.8
Hungary	682	55.2	55.2	20.0	16.1	5.1	3.6	0.0	52.0	58.1
Iran, Islamic Rep. of	879	33.5	33.5	23.8	24.7	7.5	10.2	0.3	28.5	37.9
Ireland	680	62.7	62.7	10.7	17.3	3.6	5.1	0.6	66.0	59.5
Israel	790	54.0	54.0	19.5	14.2	4.7	7.0	0.7	53.8	54.1
Italy	648	56.9	56.9	18.4	16.3	5.2	3.2	0.0	52.8	61.3
Japan	671	73.3	73.3	10.4	10.3	1.8	4.2	0.1	78.8	67.3
Jordan	1133	30.8	30.8	20.9	31.4	12.6	4.3	0.0	32.6	29.1
Kazakhstan	704	53.7	53.7	18.2	17.9	5.9	4.0	0.2	50.2	56.9
Korea, Rep. of	762	70.0	70.0	12.6	12.8	3.9	0.6	0.0	74.5	66.2
Kuwait	661	27.6	27.6	21.7	30.0	6.8	13.5	0.4	24.8	30.5
Lebanon	530	26.2	26.2	20.7	25.5	5.7	20.3	1.6	23.7	29.1
Lithuania	621	57.3	57.3	17.6	17.6	5.3	2.3	0.0	54.4	60.0
Malaysia	1383	54.7	54.7	14.5	24.8	5.3	0.8	0.0	54.5	54.9
Malta	540	50.9	50.9	19.8	20.7	6.0	2.6	0.0	56.6	45.3
Morocco	1899	22.4	22.4	22.9	36.6	9.0	9.0	0.2	23.5	21.3
New Zealand	1149	59.7	59.7	15.8	17.1	4.2	2.8	0.4	62.4	56.8
Norway	666	63.1	63.1	14.6	11.6	4.3	6.1	0.2	62.4	63.8
Oman	1287	34.3	34.3	23.0	31.1	6.6	5.0	0.1	36.6	32.0
Qatar	765	45.3	45.3	20.9	21.4	6.9	5.1	0.4	47.0	43.7
Russian Federation	685	55.2	55.2	20.0	15.9	3.2	5.7	0.0	53.6	57.0
Saudi Arabia	539	31.5	31.5	27.1	28.5	9.3	3.6	0.0	29.8	33.5
Singapore	875	83.1	83.1	7.6	7.4	1.4	0.4	0.0	85.6	80.5
Slovenia	605	60.4	60.4	20.2	11.8	3.9	3.7	0.0	62.2	58.1
South Africa	1787	24.9	24.9	19.8	43.0	8.3	3.9	0.2	25.7	24.1
Sweden	583	60.0	60.0	15.9	14.5	4.2	5.3	0.2	58.3	61.9
Thailand	929	46.5	46.5	22.5	23.4	3.3	4.3	0.1	49.6	43.1
Turkey	865	54.5	54.5	16.1	22.0	6.7	0.6	0.0	55.5	53.7
United Arab Emirates	2574	46.0	46.0	20.0	25.2	5.7	2.9	0.2	47.3	44.8
United States	1457	65.0	65.0	13.7	16.9	3.1	1.0	0.3	64.8	65.3
International Avg (n=39)	36063	50.4	50.4	18.2	21.2	5.5	4.5	0.2	50.9	49.9
Buenos Aires, Argentina	426	29.9	29.9	16.7	22.2	3.6	25.5	2.1	31.0	28.6
Ontario, Canada	640	58.1	58.1	15.9	19.1	4.6	2.2	0.0	58.0	58.2
Quebec, Canada	565	56.1	56.1	14.7	15.8	7.5	5.6	0.2	50.2	62.4
Norway (8)	689	54.6	54.6	18.0	14.1	5.7	7.2	0.3	54.4	54.9
Abu Dhabi, UAE	690	46.5	46.5	18.2	26.2	6.2	2.8	0.1	48.4	44.6
Dubai, UAE	871	58.5	58.5	15.1	19.9	4.3	2.2	0.0	59.8	57.1
Florida, US	291	60.1	60.1	18.7	16.1	3.4	1.1	0.6	60.5	59.7

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_04 (S062101): Biology / Knowing Type: CR 2 Points
Label: Stomach tissue and function

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	37.1	42.4	16.9	79.5	37.1	3.2	0.3	34.7	39.7
Bahrain	698	18.9	33.6	41.7	52.5	18.9	5.5	0.2	18.7	19.1
Botswana	850	8.5	34.5	52.3	43.0	8.5	4.7	0.0	10.0	6.9
Canada	1245	31.5	42.6	21.5	74.2	31.5	4.2	0.1	30.4	32.7
Chile	690	24.5	32.4	30.6	56.9	24.5	12.2	0.3	19.4	29.4
Chinese Taipei	821	56.8	32.3	10.0	89.1	56.8	0.9	0.0	55.1	58.4
Egypt	1114	6.7	20.3	60.1	26.9	6.7	12.5	0.4	5.4	8.1
England	675	36.9	40.3	20.6	77.2	36.9	1.8	0.5	38.9	35.0
Georgia	576	36.4	30.6	23.2	67.0	36.4	9.3	0.5	31.6	42.3
Hong Kong SAR	592	52.2	33.6	13.4	85.8	52.2	0.7	0.2	49.2	55.0
Hungary	682	45.5	35.2	17.8	80.7	45.5	1.5	0.0	40.5	50.1
Iran, Islamic Rep. of	879	19.0	36.6	36.4	55.5	19.0	7.8	0.3	17.4	20.4
Ireland	680	38.1	41.2	16.3	79.3	38.1	3.8	0.6	41.0	35.3
Israel	790	30.8	31.8	30.8	62.6	30.8	5.9	0.7	31.2	30.3
Italy	648	29.6	40.5	24.3	70.1	29.6	5.6	0.0	25.4	34.2
Japan	671	59.2	28.4	11.2	87.6	59.2	1.1	0.1	56.7	61.8
Jordan	1133	9.9	28.3	55.8	38.2	9.9	6.0	0.0	11.8	8.0
Kazakhstan	704	33.6	26.4	31.6	60.0	33.6	8.2	0.2	31.4	35.6
Korea, Rep. of	762	54.4	26.5	18.0	80.9	54.4	1.1	0.0	58.8	50.6
Kuwait	661	11.3	23.6	47.1	34.8	11.3	16.8	1.3	11.7	10.8
Lebanon	542	10.4	25.7	44.5	36.1	10.4	17.4	2.0	9.0	11.9
Lithuania	621	42.3	37.4	16.8	79.7	42.3	3.5	0.0	38.2	46.1
Malaysia	1383	14.5	34.1	46.5	48.6	14.5	4.8	0.0	12.5	16.8
Malta	540	21.5	36.1	37.9	57.6	21.5	4.5	0.0	20.7	22.3
Morocco	1899	7.1	24.5	57.0	31.7	7.1	10.9	0.4	6.7	7.5
New Zealand	1149	33.2	37.1	25.0	70.3	33.2	4.3	0.4	33.4	33.0
Norway	666	45.4	23.8	25.5	69.2	45.4	5.1	0.2	39.7	51.1
Oman	1282	15.4	29.4	47.3	44.7	15.4	7.6	0.3	17.9	12.9
Qatar	765	16.8	36.7	39.3	53.5	16.8	6.7	0.5	19.9	13.7
Russian Federation	685	62.9	24.7	9.0	87.5	62.9	3.5	0.0	62.3	63.4
Saudi Arabia	544	12.0	28.5	55.3	40.5	12.0	4.3	0.0	13.1	10.8
Singapore	875	53.4	32.5	13.3	85.9	53.4	0.8	0.0	51.5	55.4
Slovenia	605	53.4	26.6	17.6	80.0	53.4	2.4	0.0	54.9	51.5
South Africa	1787	7.3	25.2	55.5	32.4	7.3	11.9	0.2	6.8	7.8
Sweden	582	29.0	34.0	32.2	63.1	29.0	4.6	0.2	29.1	28.9
Thailand	929	22.9	41.8	23.8	64.7	22.9	11.5	0.1	25.9	19.7
Turkey	865	10.1	40.1	46.1	50.2	10.1	3.7	0.0	10.1	10.0
United Arab Emirates	2574	19.3	31.2	41.5	50.5	19.3	7.7	0.3	20.2	18.4
United States	1457	41.4	38.5	17.6	79.8	41.4	2.2	0.3	36.9	45.7
International Avg (n=39)	36076	29.7	32.5	31.6	62.3	29.7	5.9	0.3	28.9	30.5
Buenos Aires, Argentina	440	10.7	24.4	31.3	35.0	10.7	31.0	2.7	11.8	9.4
Ontario, Canada	640	36.0	41.5	18.6	77.5	36.0	3.8	0.1	36.9	34.9
Quebec, Canada	565	23.2	45.8	26.0	69.0	23.2	4.7	0.2	18.0	28.8
Norway (8)	689	40.6	27.8	25.4	68.4	40.6	5.9	0.4	36.3	44.7
Abu Dhabi, UAE	690	14.6	28.5	44.6	43.1	14.6	12.2	0.1	16.2	12.9
Dubai, UAE	871	30.8	36.4	30.3	67.2	30.8	2.4	0.1	30.5	31.2
Florida, US	291	38.3	35.3	22.4	73.6	38.3	3.5	0.6	37.7	38.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_06 (S062128): Physics / Applying Type: CR 1 Point
Label: Densities of three liquids

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	54.1	43.3	54.1	2.2	0.4	54.2	54.0
Bahrain	698	39.1	56.3	39.1	4.4	0.2	40.9	37.3
Botswana	850	24.0	74.6	24.0	1.3	0.1	20.5	27.8
Canada	1245	64.9	32.4	64.9	2.1	0.6	61.6	68.4
Chile	690	25.5	63.6	25.5	10.6	0.3	23.4	27.6
Chinese Taipei	821	59.7	39.6	59.7	0.8	0.0	56.0	63.3
Egypt	1114	29.3	60.5	29.3	9.4	0.8	31.2	27.3
England	675	52.2	46.1	52.2	1.1	0.7	50.2	54.2
Georgia	576	42.4	48.8	42.4	8.1	0.8	39.7	45.6
Hong Kong SAR	592	62.1	36.9	62.1	0.8	0.2	57.0	67.0
Hungary	682	59.3	35.7	59.3	5.1	0.0	54.6	63.6
Iran, Islamic Rep. of	880	45.7	44.3	45.7	9.6	0.3	49.6	42.3
Ireland	680	55.3	42.2	55.3	1.3	1.1	53.4	57.2
Israel	790	60.6	34.5	60.6	4.0	0.8	57.9	63.4
Italy	648	56.8	39.3	56.8	3.7	0.2	52.7	61.2
Japan	671	75.1	23.1	75.1	1.7	0.1	73.4	76.9
Jordan	1133	43.6	53.3	43.6	3.1	0.1	49.0	38.1
Kazakhstan	704	61.4	32.8	61.4	5.6	0.2	58.6	64.0
Korea, Rep. of	762	74.7	24.0	74.7	1.3	0.0	76.8	72.9
Kuwait	661	30.3	58.6	30.3	9.8	1.3	28.9	31.8
Lebanon	542	48.6	40.7	48.6	8.5	2.1	47.2	50.2
Lithuania	621	61.4	35.4	61.4	3.2	0.0	60.5	62.2
Malaysia	1383	73.2	24.9	73.2	1.7	0.2	75.6	70.5
Malta	540	61.3	34.9	61.3	3.8	0.0	57.2	65.4
Morocco	1899	35.0	57.2	35.0	7.4	0.4	35.9	34.3
New Zealand	1149	53.1	44.4	53.1	2.1	0.4	54.4	51.6
Norway	666	52.8	42.9	52.8	4.1	0.3	49.4	56.2
Oman	1287	47.1	49.1	47.1	3.5	0.3	49.4	44.8
Qatar	765	41.9	54.1	41.9	3.3	0.7	41.2	42.6
Russian Federation	685	66.4	30.9	66.4	2.7	0.0	63.0	70.1
Saudi Arabia	544	22.0	70.2	22.0	7.8	0.0	24.1	19.8
Singapore	875	83.1	16.6	83.1	0.3	0.0	85.0	81.3
Slovenia	605	68.6	29.7	68.6	1.6	0.0	66.8	70.8
South Africa	1787	18.0	78.7	18.0	2.7	0.7	14.0	22.2
Sweden	583	57.3	38.9	57.3	3.7	0.2	53.7	61.2
Thailand	928	42.0	54.4	42.0	3.4	0.2	43.9	40.0
Turkey	865	62.0	33.9	62.0	4.1	0.0	61.6	62.4
United Arab Emirates	2574	48.5	48.2	48.5	2.9	0.4	47.7	49.3
United States	1457	61.1	37.5	61.1	1.0	0.5	58.2	63.9
International Avg (n=39)	36082	51.8	43.9	51.8	3.9	0.4	50.7	52.9
Buenos Aires, Argentina	440	24.0	48.7	24.0	24.2	3.0	21.2	27.7
Ontario, Canada	640	62.9	34.7	62.9	2.0	0.4	61.1	64.9
Quebec, Canada	565	68.1	28.9	68.1	2.0	1.0	62.8	73.9
Norway (8)	689	54.5	40.1	54.5	4.7	0.7	51.5	57.3
Abu Dhabi, UAE	690	42.4	54.1	42.4	3.5	0.1	41.2	43.5
Dubai, UAE	871	62.1	36.3	62.1	1.4	0.1	61.0	63.3
Florida, US	291	53.6	43.8	53.6	1.3	1.2	56.5	50.9

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_07 (S062047): Physics / Knowing Type: CR 1 Point
Label: Absorbed or reflected light (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1460	35.5	58.4	35.5	5.5	0.6	32.8	38.5
Bahrain	698	33.6	59.0	33.6	7.2	0.2	39.3	28.0
Botswana	850	21.5	66.0	21.5	12.4	0.1	20.6	22.4
Canada	1212	45.5	50.2	45.5	3.5	0.9	42.3	49.0
Chile	691	28.9	58.8	28.9	11.6	0.7	23.8	34.0
Chinese Taipei	821	40.5	58.6	40.5	0.9	0.0	38.9	42.0
Egypt	1114	29.4	54.8	29.4	14.8	1.0	33.5	24.9
England	675	46.2	45.8	46.2	7.2	0.7	46.4	46.0
Georgia	576	27.2	57.5	27.2	14.6	0.8	32.9	20.2
Hong Kong SAR	592	53.3	43.6	53.3	2.9	0.2	51.2	55.4
Hungary	682	47.1	49.3	47.1	3.6	0.0	42.1	51.7
Iran, Islamic Rep. of	880	28.8	62.6	28.8	8.2	0.4	29.6	28.1
Ireland	680	37.1	54.5	37.1	7.3	1.1	39.4	34.9
Israel	790	47.7	42.7	47.7	8.6	0.9	48.0	47.4
Italy	649	47.0	47.5	47.0	5.3	0.2	47.8	46.1
Japan	671	46.0	50.3	46.0	3.6	0.1	49.9	41.8
Jordan	1133	36.9	54.3	36.9	8.8	0.1	43.9	30.0
Kazakhstan	704	42.3	51.9	42.3	5.5	0.2	42.0	42.6
Korea, Rep. of	763	43.4	53.2	43.4	3.3	0.1	40.3	46.1
Kuwait	663	37.0	56.4	37.0	5.0	1.6	36.4	37.7
Lebanon	510	39.1	42.2	39.1	16.1	2.6	40.8	37.2
Lithuania	621	39.3	56.7	39.3	4.0	0.0	44.2	34.9
Malaysia	1383	33.3	62.5	33.3	4.1	0.2	34.2	32.2
Malta	541	34.7	55.5	34.7	9.5	0.3	33.7	35.7
Morocco	1899	26.2	64.0	26.2	9.3	0.5	28.6	24.0
New Zealand	1154	47.7	45.9	47.7	5.1	1.2	51.0	44.2
Norway	666	40.0	50.9	40.0	8.8	0.3	40.8	39.2
Oman	1287	26.4	66.8	26.4	6.3	0.5	31.1	22.0
Qatar	767	42.3	41.9	42.3	14.3	1.4	49.2	35.6
Russian Federation	685	42.1	51.9	42.1	6.0	0.0	40.4	43.9
Saudi Arabia	532	24.8	68.4	24.8	6.8	0.0	26.1	23.3
Singapore	875	56.5	39.4	56.5	3.9	0.1	54.8	58.2
Slovenia	605	46.3	48.4	46.3	5.2	0.1	47.1	45.3
South Africa	1787	20.4	66.9	20.4	11.7	0.9	20.6	20.2
Sweden	584	36.3	57.0	36.3	6.1	0.6	33.1	39.8
Thailand	912	31.7	61.9	31.7	6.2	0.2	36.2	26.7
Turkey	865	40.2	54.2	40.2	5.7	0.0	43.2	37.5
United Arab Emirates	2574	38.5	54.4	38.5	6.7	0.4	40.2	36.8
United States	1457	47.3	50.4	47.3	1.8	0.5	47.5	47.2
International Avg (n=39)	36008	38.2	54.2	38.2	7.1	0.5	39.1	37.2
Buenos Aires, Argentina	410	19.4	46.8	19.4	27.7	6.1	16.6	23.0
Ontario, Canada	626	42.5	53.5	42.5	3.1	0.9	39.2	46.3
Quebec, Canada	547	49.5	44.6	49.5	4.9	1.0	46.0	53.2
Norway (8)	689	30.9	55.9	30.9	12.4	0.9	31.8	30.1
Abu Dhabi, UAE	690	36.3	56.3	36.3	7.4	0.1	36.2	36.4
Dubai, UAE	871	47.2	48.1	47.2	4.5	0.3	50.2	43.9
Florida, US	291	43.4	51.9	43.4	3.5	1.2	46.6	40.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_07A (S062047A): Physics / Knowing Type: MC Key: A
Label: Absorbed or reflected light: green

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	54.9	54.9	33.9	10.7	0.4	54.1	55.8
Bahrain	698	51.7	51.7	36.9	11.2	0.2	55.6	48.0
Botswana	850	39.6	39.6	36.9	23.4	0.1	39.4	39.8
Canada	1245	60.5	60.5	27.1	11.8	0.7	57.9	63.2
Chile	690	51.0	51.0	32.6	15.8	0.6	48.1	53.8
Chinese Taipei	821	55.9	55.9	41.1	3.0	0.0	54.9	56.9
Egypt	1114	47.6	47.6	29.4	22.0	1.0	50.9	43.9
England	675	61.1	61.1	28.5	9.7	0.7	59.8	62.4
Georgia	576	48.4	48.4	29.1	21.8	0.8	48.9	47.7
Hong Kong SAR	592	68.6	68.6	25.7	5.6	0.2	65.0	71.9
Hungary	682	61.1	61.1	30.1	8.8	0.0	58.2	63.8
Iran, Islamic Rep. of	880	44.9	44.9	37.2	17.5	0.4	44.2	45.6
Ireland	680	55.9	55.9	28.6	14.4	1.1	57.6	54.2
Israel	790	62.6	62.6	27.1	9.4	0.9	64.1	61.1
Italy	648	61.2	61.2	31.1	7.4	0.2	62.8	59.5
Japan	671	62.6	62.6	31.5	5.8	0.1	67.2	57.5
Jordan	1133	52.6	52.6	32.9	14.5	0.1	57.4	47.8
Kazakhstan	704	59.2	59.2	29.0	11.6	0.2	58.9	59.4
Korea, Rep. of	762	57.5	57.5	34.8	7.8	0.0	52.2	62.0
Kuwait	661	55.8	55.8	32.6	10.3	1.3	54.9	56.8
Lebanon	531	50.2	50.2	20.3	27.0	2.5	46.5	54.3
Lithuania	621	54.6	54.6	38.7	6.7	0.0	59.4	50.2
Malaysia	1383	50.7	50.7	41.5	7.7	0.2	49.6	51.9
Malta	540	55.7	55.7	29.6	14.7	0.0	57.1	54.3
Morocco	1899	45.8	45.8	39.9	13.8	0.5	47.3	44.4
New Zealand	1149	64.3	64.3	25.5	9.8	0.4	66.5	61.9
Norway	666	59.2	59.2	26.7	13.8	0.3	57.6	60.8
Oman	1287	46.9	46.9	39.2	13.5	0.5	48.7	45.2
Qatar	765	56.1	56.1	24.1	18.6	1.1	62.5	49.9
Russian Federation	685	55.6	55.6	32.6	11.8	0.0	54.6	56.6
Saudi Arabia	536	48.5	48.5	36.6	14.9	0.0	47.5	49.6
Singapore	875	66.4	66.4	27.0	6.5	0.1	63.5	69.4
Slovenia	605	59.4	59.4	32.8	7.7	0.1	58.9	60.1
South Africa	1787	41.9	41.9	34.6	22.5	0.9	39.1	44.9
Sweden	583	59.7	59.7	27.6	12.2	0.5	60.3	59.0
Thailand	922	58.9	58.9	30.2	10.8	0.2	60.1	57.4
Turkey	865	60.1	60.1	31.7	8.2	0.0	59.6	60.6
United Arab Emirates	2574	55.1	55.1	32.1	12.4	0.4	55.9	54.4
United States	1457	64.6	64.6	30.9	4.0	0.5	65.7	63.4
International Avg (n=39)	36057	55.5	55.5	31.7	12.3	0.4	55.7	55.4
Buenos Aires, Argentina	404	36.9	36.9	22.2	37.0	3.8	34.6	40.0
Ontario, Canada	640	58.8	58.8	28.8	11.9	0.6	56.2	61.7
Quebec, Canada	565	63.2	63.2	24.3	11.5	1.0	60.7	65.7
Norway (8)	689	49.9	49.9	31.9	17.3	0.9	50.1	49.8
Abu Dhabi, UAE	690	55.8	55.8	30.8	13.3	0.1	54.8	56.9
Dubai, UAE	871	59.9	59.9	29.4	10.3	0.3	62.6	57.1
Florida, US	291	60.0	60.0	32.1	6.6	1.2	63.8	56.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_07B (S062047B): Physics / Knowing Type: MC Key: B
Label: Absorbed or reflected light: red

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	55.2	35.9	55.2	8.5	0.4	53.4	57.2
Bahrain	698	51.5	39.7	51.5	8.6	0.2	56.7	46.5
Botswana	850	42.7	39.7	42.7	17.5	0.1	44.4	40.8
Canada	1211	66.6	28.2	66.6	4.5	0.7	65.0	68.4
Chile	690	55.2	30.8	55.2	13.5	0.6	53.0	57.4
Chinese Taipei	821	50.0	48.6	50.0	1.5	0.0	48.5	51.4
Egypt	1114	45.9	33.3	45.9	19.9	1.0	49.8	41.4
England	675	61.6	29.4	61.6	8.4	0.7	63.5	59.6
Georgia	576	48.8	31.7	48.8	18.7	0.8	57.0	39.0
Hong Kong SAR	592	66.9	29.0	66.9	3.9	0.2	65.2	68.6
Hungary	682	64.1	30.0	64.1	5.9	0.0	64.3	64.0
Iran, Islamic Rep. of	880	41.4	45.3	41.4	12.8	0.4	37.8	44.6
Ireland	680	60.3	30.1	60.3	8.5	1.1	63.1	57.5
Israel	790	63.6	26.2	63.6	9.3	0.9	63.9	63.3
Italy	648	62.6	30.0	62.6	7.2	0.2	65.7	59.2
Japan	671	63.4	31.9	63.4	4.6	0.1	67.3	59.0
Jordan	1133	54.8	34.2	54.8	10.9	0.1	62.1	47.6
Kazakhstan	704	56.0	35.0	56.0	8.8	0.2	56.3	55.7
Korea, Rep. of	762	52.8	42.5	52.8	4.7	0.0	50.2	54.9
Kuwait	661	53.4	38.2	53.4	7.2	1.3	53.8	52.9
Lebanon	512	53.1	27.1	53.1	17.3	2.6	51.2	55.2
Lithuania	621	55.6	39.5	55.6	4.8	0.0	58.8	52.8
Malaysia	1383	53.4	41.0	53.4	5.5	0.2	53.9	52.9
Malta	540	56.9	31.5	56.9	11.6	0.0	59.5	54.2
Morocco	1899	44.0	43.8	44.0	11.7	0.5	44.9	43.2
New Zealand	1149	65.6	26.8	65.6	7.1	0.4	70.1	60.8
Norway	666	64.7	21.4	64.7	13.7	0.3	65.8	63.7
Oman	1287	45.4	45.0	45.4	9.1	0.5	50.5	40.6
Qatar	765	56.5	26.8	56.5	15.6	1.1	63.6	49.5
Russian Federation	685	61.6	30.0	61.6	8.4	0.0	64.6	58.3
Saudi Arabia	534	46.4	43.7	46.4	9.8	0.0	48.5	44.0
Singapore	875	67.0	28.8	67.0	4.1	0.1	67.1	66.9
Slovenia	605	63.3	31.3	63.3	5.3	0.1	64.9	61.3
South Africa	1787	41.0	40.5	41.0	17.5	0.9	41.3	40.7
Sweden	583	63.3	27.5	63.3	8.7	0.5	61.5	65.3
Thailand	918	57.2	34.0	57.2	8.7	0.2	61.8	52.1
Turkey	865	64.4	29.1	64.4	6.5	0.0	65.3	63.5
United Arab Emirates	2574	54.6	35.3	54.6	9.7	0.4	56.0	53.1
United States	1457	65.4	31.4	65.4	2.6	0.5	67.8	63.0
International Avg (n=39)	35998	56.3	34.0	56.3	9.3	0.4	57.9	54.6
Buenos Aires, Argentina	409	42.4	21.6	42.4	32.3	3.7	41.3	43.5
Ontario, Canada	625	65.0	30.6	65.0	3.9	0.6	63.9	66.2
Quebec, Canada	547	69.5	22.9	69.5	6.6	1.0	67.3	71.9
Norway (8)	689	56.5	27.9	56.5	14.7	0.9	60.6	52.7
Abu Dhabi, UAE	690	52.5	36.7	52.5	10.7	0.1	51.5	53.5
Dubai, UAE	871	63.1	30.2	63.1	6.4	0.3	67.1	59.0
Florida, US	291	62.1	32.6	62.1	4.1	1.2	66.0	58.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_07C (S062047C): Physics / Knowing Type: MC Key: A
Label: Absorbed or reflected light: blue

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	51.5	51.5	38.7	9.4	0.4	48.9	54.2
Bahrain	698	49.4	49.4	40.5	9.9	0.2	55.5	43.4
Botswana	850	44.2	44.2	30.9	24.8	0.1	44.9	43.4
Canada	1245	60.0	60.0	30.5	8.8	0.7	60.1	59.9
Chile	690	48.0	48.0	35.2	16.3	0.6	43.9	52.0
Chinese Taipei	821	52.7	52.7	43.5	3.8	0.0	52.5	52.9
Egypt	1114	45.4	45.4	30.5	23.1	1.0	48.7	41.7
England	675	59.7	59.7	29.0	10.6	0.7	61.7	57.8
Georgia	576	42.6	42.6	35.5	21.1	0.8	49.0	34.8
Hong Kong SAR	592	65.1	65.1	29.4	5.2	0.2	63.9	66.4
Hungary	682	62.0	62.0	29.2	8.9	0.0	60.1	63.7
Iran, Islamic Rep. of	880	43.8	43.8	38.2	17.6	0.4	42.3	45.2
Ireland	680	52.4	52.4	33.5	13.0	1.1	56.6	48.3
Israel	790	58.7	58.7	30.8	9.6	0.9	60.2	57.1
Italy	648	63.0	63.0	28.7	8.1	0.2	65.3	60.5
Japan	671	58.6	58.6	36.6	4.7	0.1	63.1	53.7
Jordan	1133	52.8	52.8	32.9	14.3	0.1	58.3	47.3
Kazakhstan	704	56.3	56.3	31.9	11.6	0.2	52.8	59.6
Korea, Rep. of	762	51.4	51.4	39.2	9.4	0.0	49.2	53.3
Kuwait	661	55.9	55.9	32.4	10.5	1.3	56.6	55.1
Lebanon	533	46.7	46.7	25.8	25.0	2.5	48.2	45.1
Lithuania	621	59.9	59.9	35.0	5.1	0.0	63.5	56.5
Malaysia	1383	53.5	53.5	38.7	7.6	0.2	55.3	51.5
Malta	540	51.2	51.2	34.6	14.2	0.0	50.0	52.5
Morocco	1899	42.9	42.9	41.9	14.7	0.5	44.6	41.4
New Zealand	1149	62.0	62.0	29.0	8.6	0.4	66.8	56.9
Norway	666	56.0	56.0	31.6	12.1	0.3	60.3	51.6
Oman	1287	46.4	46.4	39.9	13.3	0.5	53.7	39.3
Qatar	765	54.5	54.5	25.7	18.7	1.1	61.9	47.2
Russian Federation	685	60.1	60.1	28.3	11.6	0.0	57.9	62.6
Saudi Arabia	537	42.6	42.6	43.2	14.2	0.0	46.2	38.6
Singapore	875	66.7	66.7	26.7	6.5	0.1	65.4	67.9
Slovenia	605	59.0	59.0	33.0	7.9	0.1	60.7	56.9
South Africa	1787	41.5	41.5	35.8	21.8	0.9	41.8	41.1
Sweden	583	56.0	56.0	30.2	13.2	0.5	54.1	58.1
Thailand	926	47.7	47.7	39.2	13.0	0.2	51.2	43.8
Turkey	865	56.6	56.6	35.4	8.0	0.0	59.8	53.7
United Arab Emirates	2574	54.3	54.3	34.5	10.8	0.4	55.8	52.9
United States	1457	62.3	62.3	32.8	4.3	0.5	62.6	62.1
International Avg (n=39)	36064	53.7	53.7	33.8	12.1	0.4	55.2	52.1
Buenos Aires, Argentina	405	34.3	34.3	25.3	36.7	3.8	33.9	34.4
Ontario, Canada	640	57.7	57.7	33.5	8.2	0.6	58.6	56.6
Quebec, Canada	565	62.8	62.8	26.0	10.2	1.0	61.0	64.7
Norway (8)	689	50.5	50.5	33.7	15.0	0.9	53.0	48.1
Abu Dhabi, UAE	690	50.4	50.4	37.4	12.2	0.1	52.6	48.1
Dubai, UAE	871	62.0	62.0	29.2	8.4	0.3	64.3	59.7
Florida, US	291	57.9	57.9	36.0	4.9	1.2	61.7	54.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_08 (S062042): Physics / Applying Type: CR 1 Point
Label: Parts of incandescent light bulb

COUNTRY	N	10 %	70 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	33.3	14.3	46.0	33.3	6.0	0.5	31.2	35.6
Bahrain	698	29.7	22.3	37.3	29.7	10.6	0.2	29.1	30.3
Botswana	850	24.2	11.9	58.3	24.2	5.0	0.6	21.0	27.6
Canada	1245	41.2	12.4	41.2	41.2	4.2	1.0	37.1	45.6
Chile	690	6.6	15.1	32.6	6.6	45.1	0.6	5.4	7.8
Chinese Taipei	821	43.0	21.9	33.9	43.0	1.1	0.0	33.1	52.9
Egypt	1114	29.5	16.1	33.3	29.5	20.1	1.0	29.2	29.9
England	675	37.1	8.2	47.3	37.1	6.8	0.7	37.3	36.9
Georgia	576	24.1	15.3	48.8	24.1	11.0	0.9	17.0	32.7
Hong Kong SAR	592	64.4	16.0	18.2	64.4	1.3	0.2	57.0	71.4
Hungary	682	36.7	14.3	46.9	36.7	2.1	0.0	27.9	44.9
Iran, Islamic Rep. of	880	42.6	28.2	22.7	42.6	6.1	0.4	40.6	44.5
Ireland	680	30.7	12.7	51.1	30.7	4.2	1.3	27.0	34.3
Israel	790	54.7	18.5	19.7	54.7	5.7	1.3	52.2	57.3
Italy	648	50.0	10.9	32.2	50.0	6.8	0.2	47.0	53.1
Japan	671	49.2	24.1	25.8	49.2	0.7	0.1	51.2	47.1
Jordan	1133	45.4	20.1	25.4	45.4	8.9	0.3	49.2	41.6
Kazakhstan	704	41.2	7.1	38.4	41.2	13.0	0.2	37.4	44.9
Korea, Rep. of	762	37.3	8.6	49.4	37.3	4.7	0.0	35.4	39.0
Kuwait	661	29.3	16.8	31.9	29.3	20.5	1.4	33.3	25.2
Lebanon	535	37.8	10.7	28.5	37.8	20.3	2.8	39.5	35.8
Lithuania	621	43.5	18.6	35.9	43.5	2.0	0.0	38.6	47.9
Malaysia	1383	25.5	10.0	56.0	25.5	8.3	0.2	23.4	27.8
Malta	540	31.2	13.1	44.5	31.2	11.2	0.0	27.1	35.3
Morocco	1899	25.8	20.8	36.9	25.8	15.8	0.8	21.9	29.4
New Zealand	1149	29.8	10.5	52.3	29.8	7.0	0.4	24.5	35.5
Norway	666	45.5	9.9	38.6	45.5	5.7	0.3	39.8	51.2
Oman	1287	31.1	27.3	32.7	31.1	8.4	0.5	31.1	31.2
Qatar	765	33.2	16.0	37.8	33.2	11.6	1.3	37.0	29.5
Russian Federation	685	34.9	12.7	48.0	34.9	4.4	0.0	27.5	43.0
Saudi Arabia	544	11.0	18.5	62.3	11.0	8.3	0.0	9.6	12.5
Singapore	875	62.7	13.5	23.2	62.7	0.4	0.1	61.3	64.2
Slovenia	605	39.6	18.5	38.3	39.6	3.2	0.4	32.7	47.8
South Africa	1787	17.1	12.1	53.5	17.1	16.2	1.2	16.1	18.0
Sweden	583	43.4	9.7	40.1	43.4	6.3	0.6	40.6	46.4
Thailand	928	28.2	11.2	49.9	28.2	10.6	0.2	30.4	25.7
Turkey	865	27.8	28.4	39.4	27.8	4.4	0.0	27.9	27.8
United Arab Emirates	2574	33.8	24.1	32.0	33.8	9.7	0.5	32.8	34.7
United States	1457	42.0	14.4	40.1	42.0	2.7	0.7	35.1	48.9
International Avg (n=39)	36075	35.7	15.8	39.2	35.7	8.7	0.5	33.2	38.3
Buenos Aires, Argentina	440	14.2	11.9	37.0	14.2	33.1	3.8	9.9	19.4
Ontario, Canada	640	39.0	10.2	45.0	39.0	5.0	0.8	34.5	43.9
Quebec, Canada	565	47.8	15.7	32.0	47.8	2.8	1.7	43.4	52.6
Norway (8)	689	31.2	12.2	47.7	31.2	7.9	1.0	26.3	35.9
Abu Dhabi, UAE	690	27.6	26.3	33.3	27.6	12.7	0.1	28.9	26.3
Dubai, UAE	871	43.4	18.9	32.9	43.4	4.5	0.3	39.4	47.7
Florida, US	291	29.4	16.2	48.9	29.4	4.3	1.2	25.4	33.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_09 (S062250): Chemistry / Applying Type: CR 1 Point
Label: Paint prevents rust

COUNTRY	N	10 %	11 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	3.6	27.1	59.1	30.7	9.6	0.5	30.4	31.0
Bahrain	698	7.9	11.6	61.7	19.5	18.3	0.5	24.6	14.6
Botswana	849	7.1	19.3	64.5	26.4	8.3	0.8	27.6	25.1
Canada	1245	3.7	32.2	51.8	35.9	11.2	1.0	37.4	34.4
Chile	690	10.4	20.1	32.1	30.5	36.8	0.6	30.1	30.9
Chinese Taipei	821	8.2	6.2	77.9	14.4	7.7	0.0	14.2	14.6
Egypt	1114	10.0	9.6	42.7	19.6	36.6	1.2	19.5	19.7
England	675	9.5	23.9	55.1	33.4	10.8	0.7	34.2	32.5
Georgia	576	5.1	7.8	56.0	12.9	30.3	0.9	9.5	17.1
Hong Kong SAR	592	10.0	12.2	63.4	22.3	14.1	0.2	22.1	22.4
Hungary	682	22.0	15.8	46.9	37.8	15.3	0.0	36.2	39.3
Iran, Islamic Rep. of	880	11.6	28.1	39.8	39.7	20.1	0.4	42.2	37.5
Ireland	680	15.3	28.3	49.2	43.6	5.9	1.3	46.1	41.2
Israel	790	8.4	16.1	55.2	24.4	19.1	1.3	21.6	27.2
Italy	648	2.0	13.4	53.7	15.4	30.6	0.2	13.8	17.2
Japan	671	1.4	17.1	72.2	18.5	9.2	0.1	22.3	14.4
Jordan	1133	26.5	17.1	39.2	43.6	16.8	0.4	51.5	35.7
Kazakhstan	704	23.2	28.1	31.7	51.3	16.8	0.2	53.3	49.5
Korea, Rep. of	762	5.3	12.2	71.2	17.6	11.3	0.0	19.5	15.9
Kuwait	661	26.7	7.7	32.6	34.5	31.4	1.6	41.8	26.9
Lebanon	542	15.7	9.3	21.6	25.0	50.2	3.2	23.9	26.3
Lithuania	621	14.0	28.8	39.1	42.8	18.1	0.0	37.8	47.4
Malaysia	1383	39.7	12.2	37.6	51.8	10.4	0.2	54.0	49.4
Malta	540	7.0	14.3	54.0	21.3	24.7	0.0	22.8	19.8
Morocco	1899	18.9	9.9	25.6	28.9	44.6	0.9	30.7	27.2
New Zealand	1149	5.5	35.3	49.2	40.8	9.5	0.5	42.6	38.8
Norway	666	6.8	28.9	49.1	35.8	14.9	0.3	33.9	37.7
Oman	1286	9.1	9.3	66.0	18.4	15.2	0.5	18.7	18.1
Qatar	765	16.4	10.8	53.1	27.2	18.3	1.4	30.6	23.8
Russian Federation	685	10.5	34.8	35.1	45.3	19.5	0.0	43.6	47.2
Saudi Arabia	544	9.3	5.7	59.7	14.9	25.2	0.2	17.8	11.8
Singapore	875	13.2	21.5	61.2	34.7	3.9	0.1	35.9	33.6
Slovenia	605	23.8	21.0	40.4	44.8	14.4	0.4	45.4	44.0
South Africa	1787	6.5	11.9	62.7	18.4	17.4	1.4	18.4	18.4
Sweden	583	3.9	34.9	47.6	38.8	13.0	0.6	40.1	37.4
Thailand	928	6.0	18.1	53.6	24.1	21.8	0.5	27.0	20.9
Turkey	864	1.7	5.8	72.9	7.5	19.6	0.0	7.0	7.9
United Arab Emirates	2573	11.9	14.7	57.1	26.6	15.9	0.5	29.2	24.0
United States	1457	5.1	25.9	63.6	31.0	4.7	0.7	30.3	31.8
International Avg (n=39)	36078	11.4	18.1	51.4	29.5	18.5	0.6	30.4	28.5
Buenos Aires, Argentina	440	4.7	3.4	30.5	8.1	57.0	4.3	8.6	7.5
Ontario, Canada	640	3.0	35.1	50.5	38.0	10.6	0.8	38.2	37.8
Quebec, Canada	565	4.5	26.1	56.4	30.6	11.4	1.7	33.0	27.9
Norway (8)	689	5.3	35.2	41.9	40.6	16.5	1.0	41.5	39.7
Abu Dhabi, UAE	690	9.5	10.7	63.8	20.2	15.9	0.1	25.1	15.2
Dubai, UAE	870	15.3	22.4	50.9	37.6	11.1	0.3	40.8	34.3
Florida, US	291	3.9	18.5	68.4	22.4	7.7	1.5	25.6	19.3

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_10 (S062246): Chemistry / Knowing Type: MC Key: C
Label: True of all neutral atoms

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	32.2	27.5	22.1	32.2	13.1	4.2	0.9	34.1	30.2
Bahrain	698	40.4	29.3	14.4	40.4	13.6	1.7	0.7	46.7	34.3
Botswana	849	25.9	25.5	26.3	25.9	19.4	2.0	1.0	27.0	24.7
Canada	1233	33.6	32.6	19.4	33.6	10.2	3.0	1.3	35.4	31.5
Chile	690	39.4	31.3	16.3	39.4	9.5	2.9	0.6	37.8	41.0
Chinese Taipei	821	51.4	22.9	18.2	51.4	7.2	0.3	0.0	50.2	52.6
Egypt	1114	42.6	27.4	17.8	42.6	9.4	1.6	1.2	41.0	44.4
England	675	34.8	28.7	19.9	34.8	10.8	5.2	0.7	35.7	33.8
Georgia	576	45.7	27.9	16.0	45.7	5.9	3.1	1.4	45.9	45.5
Hong Kong SAR	592	33.0	22.8	29.3	33.0	12.9	1.6	0.5	37.2	29.0
Hungary	682	58.5	23.1	7.0	58.5	7.7	3.8	0.0	60.0	57.0
Iran, Islamic Rep. of	880	47.8	23.3	12.6	47.8	12.4	3.5	0.4	50.8	45.1
Ireland	680	42.9	28.8	14.6	42.9	9.7	2.7	1.4	43.3	42.5
Israel	790	59.6	20.2	10.0	59.6	6.2	2.5	1.4	64.9	54.4
Italy	648	36.8	32.0	15.4	36.8	9.8	5.9	0.2	33.8	40.0
Japan	671	44.5	18.7	14.7	44.5	17.1	4.8	0.3	45.8	43.1
Jordan	1133	47.9	36.4	7.6	47.9	5.7	1.5	0.9	49.9	46.0
Kazakhstan	704	53.0	26.5	11.3	53.0	7.0	1.9	0.2	51.4	54.6
Korea, Rep. of	762	49.6	19.7	19.9	49.6	10.0	0.8	0.0	53.7	46.1
Kuwait	661	51.5	23.4	13.2	51.5	5.5	4.5	1.8	57.3	45.6
Lebanon	520	63.8	18.7	6.0	63.8	1.9	6.0	3.7	65.1	62.3
Lithuania	621	49.8	31.7	10.5	49.8	7.3	0.5	0.1	52.5	47.4
Malaysia	1383	31.4	36.0	22.5	31.4	9.0	0.9	0.2	31.7	31.0
Malta	540	39.2	23.8	19.7	39.2	9.9	7.4	0.0	41.3	37.1
Morocco	1899	39.2	18.6	20.9	39.2	14.9	5.3	1.1	39.3	39.0
New Zealand	1149	34.6	31.0	18.5	34.6	12.2	3.2	0.5	35.8	33.3
Norway	666	46.9	36.3	7.4	46.9	6.5	2.6	0.3	46.7	47.1
Oman	1287	32.5	36.9	17.6	32.5	10.0	2.5	0.6	29.9	34.9
Qatar	765	35.8	30.5	19.0	35.8	10.1	2.9	1.7	35.9	35.7
Russian Federation	685	47.9	35.6	8.3	47.9	5.2	2.9	0.1	47.7	48.2
Saudi Arabia	542	24.9	42.2	24.0	24.9	8.2	0.5	0.2	21.8	28.4
Singapore	875	66.5	20.3	8.8	66.5	4.1	0.2	0.1	69.6	63.3
Slovenia	605	49.6	29.6	12.6	49.6	5.3	2.5	0.4	48.7	50.6
South Africa	1787	30.1	29.2	23.3	30.1	12.8	3.0	1.7	29.3	30.9
Sweden	583	44.2	24.6	17.2	44.2	7.6	5.8	0.6	43.5	44.9
Thailand	928	38.9	19.2	24.1	38.9	13.3	4.0	0.5	39.7	38.0
Turkey	865	47.4	35.3	8.7	47.4	7.4	1.1	0.0	48.5	46.5
United Arab Emirates	2574	49.1	25.9	16.2	49.1	6.7	1.7	0.5	53.2	44.9
United States	1457	42.7	32.5	15.1	42.7	6.9	2.0	0.8	42.4	43.2
International Avg (n=39)	36045	43.2	27.8	16.1	43.2	9.3	2.9	0.7	44.2	42.3
Buenos Aires, Argentina	421	21.7	24.1	17.1	21.7	11.3	21.4	4.5	24.0	18.5
Ontario, Canada	638	33.6	32.3	20.4	33.6	9.8	3.0	1.0	35.1	31.9
Quebec, Canada	555	34.1	34.4	15.9	34.1	9.9	3.6	2.2	35.4	32.6
Norway (8)	689	35.3	31.0	17.1	35.3	10.2	5.2	1.1	33.9	36.6
Abu Dhabi, UAE	690	47.6	25.9	17.5	47.6	7.0	2.0	0.1	51.7	43.4
Dubai, UAE	871	50.9	26.0	15.4	50.9	6.3	1.0	0.3	50.9	50.9
Florida, US	291	35.3	35.3	19.2	35.3	8.3	0.5	1.5	32.7	37.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_11 (S062056): Chemistry / Reasoning Type: CR 1 Point
Label: Mary has a light stick

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	30.3	66.4	30.3	2.4	1.0	31.6	28.9
Bahrain	698	34.2	63.5	34.2	1.6	0.7	43.8	24.9
Botswana	849	12.6	84.2	12.6	1.8	1.3	13.6	11.5
Canada	1245	57.1	40.0	57.1	1.3	1.6	63.3	50.5
Chile	690	22.5	71.9	22.5	5.1	0.6	24.5	20.4
Chinese Taipei	821	66.1	33.7	66.1	0.3	0.0	66.0	66.2
Egypt	1114	14.8	80.1	14.8	3.9	1.2	15.7	13.8
England	675	72.6	23.9	72.6	2.7	0.8	75.5	69.7
Georgia	576	20.6	71.8	20.6	6.2	1.4	19.1	22.5
Hong Kong SAR	592	59.5	39.5	59.5	0.6	0.5	61.5	57.5
Hungary	682	34.5	65.1	34.5	0.4	0.0	31.0	37.7
Iran, Islamic Rep. of	880	22.7	70.5	22.7	6.1	0.6	26.6	19.3
Ireland	680	49.0	49.0	49.0	0.6	1.5	53.1	44.9
Israel	790	44.8	51.2	44.8	2.4	1.6	46.3	43.3
Italy	648	28.8	67.0	28.8	3.9	0.2	32.6	24.8
Japan	671	67.1	32.0	67.1	0.6	0.3	70.6	63.3
Jordan	1133	28.2	69.6	28.2	1.3	0.9	35.5	21.0
Kazakhstan	704	48.5	47.9	48.5	3.3	0.3	48.9	48.1
Korea, Rep. of	762	45.4	53.8	45.4	0.8	0.0	46.6	44.3
Kuwait	661	23.9	70.4	23.9	3.8	2.0	27.7	20.0
Lebanon	542	15.5	67.9	15.5	13.1	3.5	13.8	17.4
Lithuania	621	45.6	52.7	45.6	1.5	0.1	46.8	44.6
Malaysia	1383	27.7	68.0	27.7	3.9	0.4	26.8	28.6
Malta	540	40.8	56.5	40.8	2.6	0.0	46.4	35.4
Morocco	1899	18.5	74.7	18.5	5.5	1.2	19.6	17.6
New Zealand	1149	54.9	43.6	54.9	0.8	0.7	55.6	54.1
Norway	666	63.9	34.0	63.9	1.8	0.3	66.5	61.3
Oman	1287	27.7	69.1	27.7	2.6	0.6	35.8	20.0
Qatar	765	36.6	59.1	36.6	2.5	1.8	41.5	31.8
Russian Federation	685	43.7	53.4	43.7	2.8	0.1	46.0	41.1
Saudi Arabia	544	15.4	82.5	15.4	1.7	0.4	19.0	11.5
Singapore	875	63.9	35.7	63.9	0.3	0.1	63.5	64.3
Slovenia	605	63.2	35.6	63.2	0.9	0.4	66.1	59.7
South Africa	1787	12.1	83.6	12.1	2.3	2.0	12.3	11.8
Sweden	582	59.6	37.7	59.6	2.0	0.6	62.3	56.6
Thailand	928	27.0	67.1	27.0	5.4	0.5	30.4	23.2
Turkey	865	18.3	78.9	18.3	2.8	0.0	21.6	15.3
United Arab Emirates	2574	39.0	58.5	39.0	2.1	0.5	43.4	34.6
United States	1457	48.6	49.2	48.6	1.1	1.1	51.3	45.9
International Avg (n=39)	36080	38.6	57.9	38.6	2.7	0.8	41.1	36.1
Buenos Aires, Argentina	440	13.9	65.7	13.9	15.8	4.6	12.8	15.3
Ontario, Canada	640	55.5	41.9	55.5	1.2	1.4	62.0	48.2
Quebec, Canada	565	60.9	35.4	60.9	1.5	2.2	62.3	59.4
Norway (8)	689	61.2	35.8	61.2	1.9	1.1	65.8	56.7
Abu Dhabi, UAE	690	34.2	63.5	34.2	2.2	0.1	39.5	28.9
Dubai, UAE	871	53.0	45.1	53.0	1.6	0.3	55.3	50.5
Florida, US	291	37.8	58.9	37.8	1.8	1.5	43.3	32.4

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_12 (S062235): Earth Science / Knowing Type: MC Key: A
Label: Negative effects of fertilizer

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	39.1	39.1	9.0	28.1	19.0	3.5	1.4	38.3	40.0
Bahrain	698	43.9	43.9	9.2	23.2	21.5	1.6	0.7	49.4	38.7
Botswana	849	53.0	53.0	7.9	14.8	21.2	1.4	1.7	53.0	53.0
Canada	1231	49.3	49.3	5.4	30.7	11.9	1.0	1.6	46.3	52.5
Chile	690	41.4	41.4	17.4	22.5	16.2	1.9	0.6	43.9	38.8
Chinese Taipei	821	75.6	75.6	2.8	6.4	14.9	0.3	0.0	76.7	74.4
Egypt	1114	26.7	26.7	18.6	27.3	22.6	3.2	1.7	25.7	27.9
England	675	25.9	25.9	12.2	41.1	17.0	2.9	0.8	24.0	28.0
Georgia	576	32.3	32.3	12.4	26.8	24.1	2.6	1.8	30.8	34.2
Hong Kong SAR	592	66.3	66.3	4.2	12.9	15.4	0.7	0.5	65.7	66.9
Hungary	682	62.7	62.7	7.6	14.7	11.9	3.0	0.1	61.4	63.8
Iran, Islamic Rep. of	880	41.5	41.5	12.4	17.5	25.1	2.7	0.7	44.4	39.0
Ireland	680	38.2	38.2	8.8	22.7	27.2	1.7	1.5	33.2	43.0
Israel	790	54.0	54.0	6.1	17.4	17.7	3.1	1.7	55.8	52.2
Italy	648	45.1	45.1	7.1	21.8	21.1	4.8	0.2	49.2	40.6
Japan	671	36.9	36.9	12.7	35.3	14.2	0.6	0.3	38.2	35.4
Jordan	1133	40.5	40.5	13.9	20.1	22.6	1.9	1.0	44.6	36.6
Kazakhstan	702	41.9	41.9	11.3	19.0	25.0	2.1	0.7	39.2	44.4
Korea, Rep. of	762	68.5	68.5	5.3	11.4	13.7	1.1	0.0	71.7	65.7
Kuwait	661	34.3	34.3	15.3	26.0	17.7	4.0	2.7	38.6	29.9
Lebanon	509	29.4	29.4	14.6	19.4	21.5	9.6	5.5	30.4	28.3
Lithuania	620	60.1	60.1	7.0	19.8	11.5	1.5	0.1	58.3	61.7
Malaysia	1383	55.6	55.6	6.6	18.5	17.6	1.0	0.6	58.4	52.6
Malta	540	41.3	41.3	14.4	23.4	18.1	2.7	0.0	43.5	39.2
Morocco	1899	35.6	35.6	18.3	23.2	17.0	4.5	1.4	38.1	33.3
New Zealand	1149	40.0	40.0	8.4	28.5	20.9	1.4	0.7	35.9	44.4
Norway	666	37.7	37.7	14.3	22.1	23.0	2.3	0.5	34.5	41.0
Oman	1287	49.5	49.5	12.7	19.6	15.9	1.6	0.6	54.1	45.1
Qatar	765	34.8	34.8	13.4	26.7	20.9	2.3	1.9	35.9	33.7
Russian Federation	685	48.7	48.7	8.5	17.8	21.2	3.5	0.2	51.0	46.2
Saudi Arabia	539	45.8	45.8	15.7	24.3	13.5	0.3	0.4	51.7	39.2
Singapore	875	60.3	60.3	3.7	21.0	14.8	0.2	0.1	57.3	63.2
Slovenia	605	72.0	72.0	3.5	10.3	9.9	3.9	0.4	75.1	68.5
South Africa	1787	24.5	24.5	14.0	31.2	25.2	2.5	2.6	24.1	24.9
Sweden	583	42.0	42.0	8.8	28.6	15.9	3.8	1.0	43.1	40.7
Thailand	928	41.5	41.5	6.9	15.9	33.8	1.4	0.5	39.9	43.4
Turkey	864	46.0	46.0	10.5	16.5	26.3	0.8	0.0	48.3	43.9
United Arab Emirates	2574	41.6	41.6	9.8	25.6	20.8	1.5	0.6	43.9	39.3
United States	1457	47.6	47.6	5.5	26.8	17.4	1.6	1.1	45.2	50.0
International Avg (n=39)	36025	45.4	45.4	10.2	22.0	19.1	2.3	1.0	46.1	44.7
Buenos Aires, Argentina	430	25.0	25.0	12.3	26.3	16.3	14.2	5.9	24.4	25.3
Ontario, Canada	635	48.6	48.6	5.3	32.2	10.8	1.6	1.5	45.8	51.8
Quebec, Canada	557	53.6	53.6	4.0	28.0	12.1	0.1	2.2	48.4	59.1
Norway (8)	689	35.7	35.7	15.1	20.7	24.7	2.7	1.1	35.6	35.7
Abu Dhabi, UAE	690	40.6	40.6	11.1	26.4	19.8	1.8	0.2	44.5	36.6
Dubai, UAE	871	43.4	43.4	6.2	28.6	20.5	0.6	0.7	42.0	45.0
Florida, US	291	38.7	38.7	9.0	30.7	18.9	1.3	1.5	41.3	36.3

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_13 (S062180): Earth Science / Applying Type: MC Key: A
Label: Melting permafrost

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	67.2	67.2	8.4	6.0	13.2	3.7	1.4	65.6	69.0
Bahrain	698	44.8	44.8	17.6	9.8	25.2	1.7	0.9	49.1	40.6
Botswana	849	62.0	62.0	15.5	6.9	11.6	1.6	2.3	65.8	57.9
Canada	1240	67.2	67.2	7.1	4.8	17.0	1.9	2.0	63.8	70.9
Chile	690	48.5	48.5	14.5	8.2	24.8	3.2	0.7	45.5	51.5
Chinese Taipei	821	78.8	78.8	4.9	3.2	12.6	0.6	0.0	79.6	77.9
Egypt	1114	30.5	30.5	23.2	21.3	20.0	2.9	2.2	28.6	32.5
England	675	74.3	74.3	5.0	4.7	11.8	3.4	0.8	76.2	72.4
Georgia	576	35.6	35.6	30.7	8.7	18.6	4.5	1.9	36.9	34.0
Hong Kong SAR	592	78.5	78.5	6.0	4.6	9.8	0.5	0.5	74.6	82.3
Hungary	682	52.7	52.7	13.6	7.5	22.2	3.5	0.6	47.5	57.4
Iran, Islamic Rep. of	880	28.1	28.1	17.3	20.1	28.4	4.6	1.4	24.7	31.2
Ireland	680	73.8	73.8	7.9	3.1	11.9	1.8	1.5	76.4	71.3
Israel	790	52.1	52.1	15.1	9.1	17.8	4.1	1.7	50.5	53.8
Italy	648	52.8	52.8	13.0	7.6	20.8	5.6	0.2	51.7	54.0
Japan	671	77.9	77.9	7.1	2.2	11.7	0.8	0.3	79.2	76.6
Jordan	1133	43.8	43.8	16.7	12.8	23.7	1.8	1.2	50.5	37.1
Kazakhstan	703	46.4	46.4	21.2	7.8	19.9	3.6	1.1	43.2	49.3
Korea, Rep. of	762	76.8	76.8	5.2	3.0	14.2	0.8	0.0	78.4	75.5
Kuwait	661	32.0	32.0	26.6	12.4	21.6	4.5	2.9	34.1	29.9
Lebanon	525	27.0	27.0	19.7	17.1	18.3	12.5	5.6	29.2	24.5
Lithuania	620	69.8	69.8	8.2	4.6	16.0	1.4	0.1	69.5	70.0
Malaysia	1383	46.4	46.4	19.8	6.5	25.1	1.2	1.0	45.2	47.7
Malta	540	56.1	56.1	13.3	10.8	16.2	3.7	0.0	52.8	59.4
Morocco	1899	28.7	28.7	21.7	14.3	28.7	5.0	1.6	27.6	29.7
New Zealand	1149	65.1	65.1	8.9	6.6	17.5	1.1	0.7	64.7	65.5
Norway	666	64.7	64.7	8.2	6.2	17.8	2.3	0.8	63.5	65.9
Oman	1287	52.0	52.0	14.7	8.6	21.7	2.4	0.7	57.7	46.5
Qatar	765	48.1	48.1	15.4	9.5	22.4	2.7	2.0	48.0	48.2
Russian Federation	685	57.9	57.9	10.9	3.3	23.4	3.3	1.1	54.9	61.3
Saudi Arabia	537	35.2	35.2	16.6	15.0	32.1	0.9	0.4	38.2	31.7
Singapore	875	84.2	84.2	7.1	3.1	5.3	0.2	0.1	86.9	81.5
Slovenia	605	56.7	56.7	10.7	6.5	22.6	3.0	0.4	56.7	56.6
South Africa	1787	31.7	31.7	29.7	13.4	18.6	3.2	3.4	31.7	31.7
Sweden	583	68.0	68.0	9.0	6.1	12.2	3.3	1.4	68.2	67.9
Thailand	928	40.0	40.0	18.0	10.6	26.4	4.4	0.5	40.2	39.9
Turkey	865	50.1	50.1	19.3	13.5	16.4	0.7	0.0	45.8	53.9
United Arab Emirates	2574	47.7	47.7	14.9	10.6	24.0	2.2	0.7	49.3	46.0
United States	1457	68.4	68.4	6.8	5.9	15.4	2.3	1.2	67.1	69.6
International Avg (n=39)	36050	54.4	54.4	14.1	8.6	18.9	2.8	1.2	54.3	54.4
Buenos Aires, Argentina	426	36.4	36.4	14.9	7.3	16.8	17.8	6.9	32.4	40.8
Ontario, Canada	639	68.4	68.4	5.9	4.8	16.8	2.0	2.0	66.3	70.8
Quebec, Canada	561	63.5	63.5	9.4	4.6	18.9	1.4	2.2	55.5	72.1
Norway (8)	689	61.3	61.3	11.3	5.6	17.7	3.0	1.1	58.9	63.6
Abu Dhabi, UAE	690	45.7	45.7	16.7	12.7	22.6	1.9	0.4	46.2	45.3
Dubai, UAE	871	57.9	57.9	9.7	7.6	22.0	2.1	0.7	60.1	55.6
Florida, US	291	61.8	61.8	9.3	8.7	17.1	1.0	2.1	62.0	61.6

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_14 (S062022): Earth Science / Knowing Type: CR 1 Point
Label: Fresh water or salt water (DERIVED)

COUNTRY	N	10 %	79 %	V1 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1460	42.4	53.4	42.4	2.1	2.0	38.8	46.4
Bahrain	698	23.2	71.7	23.2	4.2	0.9	21.0	25.3
Botswana	849	9.0	81.5	9.0	7.1	2.4	7.9	10.2
Canada	1237	47.2	49.7	47.2	0.8	2.3	44.6	50.0
Chile	691	47.9	47.2	47.9	4.0	0.9	44.0	51.7
Chinese Taipei	821	52.8	46.9	52.8	0.2	0.0	48.6	57.0
Egypt	1114	21.5	65.9	21.5	10.3	2.3	19.5	23.8
England	675	30.3	67.2	30.3	1.7	0.8	29.4	31.3
Georgia	576	28.9	64.6	28.9	4.5	2.0	28.3	29.5
Hong Kong SAR	592	42.3	56.6	42.3	0.7	0.5	34.1	50.1
Hungary	682	46.6	52.3	46.6	0.3	0.8	40.7	52.2
Iran, Islamic Rep. of	880	20.6	77.4	20.6	0.6	1.4	18.4	22.6
Ireland	680	44.0	52.9	44.0	1.6	1.5	40.5	47.4
Israel	790	36.6	58.0	36.6	3.7	1.7	31.5	41.7
Italy	649	48.9	50.1	48.9	0.5	0.6	48.1	49.7
Japan	671	53.3	44.9	53.3	1.5	0.3	50.8	56.1
Jordan	1133	22.6	70.6	22.6	5.6	1.2	21.8	23.5
Kazakhstan	704	41.6	54.6	41.6	2.6	1.2	37.7	45.2
Korea, Rep. of	763	35.1	62.8	35.1	2.0	0.1	28.7	40.5
Kuwait	663	28.4	65.9	28.4	2.4	3.3	27.5	29.4
Lebanon	537	32.8	57.6	32.8	4.1	5.5	30.0	35.8
Lithuania	620	41.5	58.1	41.5	0.3	0.1	37.5	45.2
Malaysia	1383	35.4	61.7	35.4	1.9	1.0	32.1	39.0
Malta	541	35.5	61.1	35.5	3.2	0.3	34.6	36.3
Morocco	1899	23.2	69.2	23.2	5.6	2.0	21.0	25.2
New Zealand	1154	56.7	39.2	56.7	2.6	1.5	55.1	58.4
Norway	666	49.5	47.5	49.5	2.1	0.8	44.9	54.2
Oman	1287	36.7	58.8	36.7	3.7	0.8	34.9	38.3
Qatar	767	34.2	55.7	34.2	7.7	2.3	32.3	36.2
Russian Federation	685	65.3	32.7	65.3	0.7	1.3	65.1	65.4
Saudi Arabia	536	18.2	78.1	18.2	3.3	0.4	19.4	16.8
Singapore	875	43.8	55.4	43.8	0.7	0.1	37.6	49.9
Slovenia	605	62.7	36.5	62.7	0.4	0.4	63.0	62.4
South Africa	1787	18.4	71.6	18.4	6.3	3.8	17.8	19.1
Sweden	584	41.3	55.1	41.3	2.1	1.5	35.5	47.7
Thailand	919	37.1	59.7	37.1	2.5	0.7	36.0	38.4
Turkey	865	22.9	76.3	22.9	0.8	0.0	18.1	27.2
United Arab Emirates	2574	33.7	63.1	33.7	2.4	0.8	30.3	37.2
United States	1457	53.5	44.1	53.5	1.0	1.4	47.4	59.5
International Avg (n=39)	36069	37.6	58.3	37.6	2.8	1.3	34.7	40.4
Buenos Aires, Argentina	436	25.1	53.4	25.1	11.5	10.1	27.2	22.0
Ontario, Canada	638	47.9	48.8	47.9	0.7	2.6	46.3	49.8
Quebec, Canada	559	44.9	51.7	44.9	1.2	2.2	39.8	50.3
Norway (8)	689	50.5	45.1	50.5	3.0	1.4	47.6	53.2
Abu Dhabi, UAE	690	28.4	67.7	28.4	3.3	0.6	25.7	31.1
Dubai, UAE	871	39.2	58.3	39.2	1.8	0.7	33.5	45.2
Florida, US	291	41.2	54.0	41.2	2.5	2.3	34.6	47.6

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.

S14_14A (S062022A): Earth Science / Knowing Type: MC Key: A
Label: Fresh water or salt water: snow cap

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	82.7	82.7	9.4	6.0	1.9	82.9	82.4
Bahrain	698	64.3	64.3	27.7	7.1	0.9	67.5	61.1
Botswana	849	36.8	36.8	41.1	19.7	2.4	38.3	35.1
Canada	1245	84.2	84.2	11.4	2.3	2.1	81.4	87.2
Chile	690	79.9	79.9	11.9	7.4	0.8	77.6	82.1
Chinese Taipei	821	90.6	90.6	7.6	1.7	0.0	89.2	92.1
Egypt	1114	57.1	57.1	23.7	16.9	2.3	60.3	53.5
England	675	83.7	83.7	10.7	4.9	0.8	84.3	83.1
Georgia	576	75.2	75.2	8.3	14.6	2.0	77.5	72.3
Hong Kong SAR	592	87.5	87.5	10.6	1.4	0.5	83.8	91.0
Hungary	682	81.5	81.5	13.8	3.9	0.8	78.9	84.0
Iran, Islamic Rep. of	880	77.7	77.7	13.3	7.6	1.4	77.0	78.2
Ireland	680	84.1	84.1	10.1	4.4	1.5	83.0	85.1
Israel	790	76.8	76.8	16.4	5.0	1.7	75.5	78.2
Italy	648	89.7	89.7	7.4	2.3	0.6	89.7	89.8
Japan	671	93.0	93.0	4.4	2.4	0.3	93.5	92.4
Jordan	1133	70.1	70.1	18.7	10.0	1.2	70.6	69.7
Kazakhstan	704	82.9	82.9	9.7	6.2	1.2	81.1	84.6
Korea, Rep. of	762	81.7	81.7	12.2	6.1	0.0	79.4	83.7
Kuwait	661	70.0	70.0	22.4	4.5	3.0	73.8	66.2
Lebanon	538	77.5	77.5	11.2	5.9	5.4	75.7	79.4
Lithuania	620	90.7	90.7	8.0	1.1	0.1	89.7	91.7
Malaysia	1383	80.9	80.9	13.1	5.0	1.0	81.0	80.9
Malta	540	81.6	81.6	10.5	7.8	0.0	82.7	80.6
Morocco	1899	69.5	69.5	20.3	8.2	2.0	70.1	69.0
New Zealand	1149	85.7	85.7	8.2	5.4	0.7	87.1	84.2
Norway	666	89.8	89.8	4.8	4.6	0.8	92.4	87.3
Oman	1287	69.2	69.2	18.3	11.7	0.8	71.1	67.4
Qatar	765	69.5	69.5	17.9	10.6	2.0	72.1	67.0
Russian Federation	685	87.6	87.6	5.4	5.6	1.3	86.6	88.6
Saudi Arabia	539	55.8	55.8	29.7	14.2	0.4	58.3	52.9
Singapore	875	90.9	90.9	6.0	3.0	0.1	92.7	89.0
Slovenia	605	93.4	93.4	5.1	1.1	0.4	94.7	91.9
South Africa	1787	53.8	53.8	24.8	17.7	3.8	55.0	52.6
Sweden	583	85.4	85.4	9.1	4.1	1.4	82.6	88.5
Thailand	924	72.5	72.5	19.8	7.0	0.7	73.1	72.0
Turkey	865	82.5	82.5	14.4	3.1	0.0	82.1	82.8
United Arab Emirates	2574	76.0	76.0	16.4	6.8	0.8	76.2	75.8
United States	1457	87.8	87.8	8.3	2.5	1.4	85.9	89.8
International Avg (n=39)	36067	78.2	78.2	13.9	6.7	1.2	78.3	78.0
Buenos Aires, Argentina	431	61.4	61.4	16.7	14.0	7.9	58.2	65.1
Ontario, Canada	640	82.0	82.0	12.7	3.1	2.2	80.5	83.7
Quebec, Canada	565	86.6	86.6	9.8	1.3	2.2	80.8	92.8
Norway (8)	689	88.3	88.3	4.9	5.4	1.4	89.6	87.1
Abu Dhabi, UAE	690	71.2	71.2	19.2	9.0	0.6	72.4	70.1
Dubai, UAE	871	84.9	84.9	10.1	4.4	0.7	82.6	87.3
Florida, US	291	79.5	79.5	13.8	4.5	2.3	78.8	80.2

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_14B (S062022B): Earth Science / Knowing Type: MC Key: A
Label: Fresh water or salt water: cloud

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	75.0	75.0	15.3	7.9	1.9	73.3	76.8
Bahrain	698	60.6	60.6	31.4	7.1	0.9	56.5	64.5
Botswana	849	69.7	69.7	11.3	16.5	2.4	75.4	63.5
Canada	1244	73.0	73.0	22.6	2.3	2.1	72.0	74.1
Chile	690	71.0	71.0	21.3	7.0	0.8	70.5	71.4
Chinese Taipei	821	64.3	64.3	34.1	1.6	0.0	61.8	66.8
Egypt	1114	45.6	45.6	35.0	17.0	2.3	41.4	50.4
England	675	63.2	63.2	30.9	5.1	0.8	64.6	61.8
Georgia	576	55.7	55.7	26.9	15.4	2.0	57.6	53.4
Hong Kong SAR	592	63.1	63.1	35.0	1.4	0.5	58.5	67.5
Hungary	682	64.7	64.7	30.8	3.7	0.8	60.7	68.4
Iran, Islamic Rep. of	880	58.8	58.8	29.1	10.7	1.4	59.0	58.6
Ireland	680	69.3	69.3	25.2	4.1	1.5	68.4	70.0
Israel	790	69.4	69.4	24.4	4.5	1.7	68.3	70.4
Italy	648	62.6	62.6	33.2	3.6	0.6	62.6	62.6
Japan	671	67.1	67.1	30.2	2.4	0.3	64.4	70.0
Jordan	1133	68.7	68.7	20.6	9.5	1.2	74.5	63.0
Kazakhstan	704	62.4	62.4	28.5	7.9	1.2	61.4	63.3
Korea, Rep. of	762	61.8	61.8	32.5	5.6	0.0	58.9	64.3
Kuwait	661	61.1	61.1	30.6	5.3	3.0	60.9	61.2
Lebanon	540	60.4	60.4	28.5	5.7	5.4	61.6	59.0
Lithuania	620	62.1	62.1	35.8	2.0	0.1	57.6	66.3
Malaysia	1383	59.4	59.4	33.8	5.7	1.0	57.8	61.2
Malta	540	60.1	60.1	32.1	7.8	0.0	61.4	58.8
Morocco	1899	56.3	56.3	31.5	10.2	2.0	55.9	56.6
New Zealand	1149	79.8	79.8	14.2	5.3	0.7	83.4	75.8
Norway	666	66.6	66.6	27.6	5.0	0.8	60.9	72.3
Oman	1287	64.2	64.2	23.4	11.7	0.8	66.0	62.5
Qatar	765	61.3	61.3	25.9	10.8	2.0	60.0	62.6
Russian Federation	685	78.8	78.8	13.5	6.4	1.3	78.4	79.1
Saudi Arabia	540	59.7	59.7	27.4	12.6	0.4	60.8	58.3
Singapore	875	75.3	75.3	20.8	3.8	0.1	75.8	74.7
Slovenia	605	71.7	71.7	26.8	1.1	0.4	70.5	73.1
South Africa	1787	54.9	54.9	25.1	16.2	3.8	57.4	52.3
Sweden	583	69.7	69.7	25.2	3.8	1.4	68.4	71.1
Thailand	925	70.0	70.0	21.4	8.0	0.7	70.5	69.4
Turkey	865	58.7	58.7	38.5	2.8	0.0	56.2	61.0
United Arab Emirates	2574	66.5	66.5	26.1	6.5	0.8	66.7	66.4
United States	1457	75.8	75.8	20.1	2.8	1.4	75.3	76.2
International Avg (n=39)	36070	65.1	65.1	26.8	6.8	1.2	64.5	65.6
Buenos Aires, Argentina	431	49.6	49.6	28.4	14.1	7.9	51.6	46.8
Ontario, Canada	640	75.0	75.0	19.9	2.9	2.2	75.0	75.0
Quebec, Canada	564	68.0	68.0	28.4	1.3	2.2	64.8	71.4
Norway (8)	689	63.5	63.5	29.4	5.7	1.4	62.1	64.7
Abu Dhabi, UAE	690	65.2	65.2	26.7	7.4	0.6	68.9	61.5
Dubai, UAE	871	66.1	66.1	28.1	5.2	0.7	60.6	71.8
Florida, US	291	68.9	68.9	24.8	4.1	2.3	71.0	66.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_14C (S062022C): Earth Science / Knowing Type: MC Key: A
Label: Fresh water or salt water: river

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	66.1	66.1	24.9	7.1	1.9	64.6	67.8
Bahrain	698	69.8	69.8	23.2	6.1	0.9	70.1	69.5
Botswana	849	45.2	45.2	35.1	17.3	2.4	47.5	42.5
Canada	1240	74.8	74.8	20.7	2.5	2.1	74.1	75.5
Chile	690	76.3	76.3	17.2	5.7	0.8	76.8	75.8
Chinese Taipei	821	88.4	88.4	10.5	1.1	0.0	84.8	91.8
Egypt	1114	67.3	67.3	14.3	16.0	2.3	67.7	67.0
England	675	64.3	64.3	30.4	4.5	0.8	62.1	66.5
Georgia	576	59.4	59.4	27.4	11.3	2.0	58.3	60.7
Hong Kong SAR	592	79.1	79.1	18.6	1.8	0.5	80.8	77.5
Hungary	682	83.7	83.7	13.7	1.8	0.8	83.3	84.2
Iran, Islamic Rep. of	880	51.8	51.8	37.2	9.6	1.4	50.3	53.1
Ireland	680	74.9	74.9	19.9	3.7	1.5	74.3	75.4
Israel	790	67.2	67.2	26.2	4.9	1.7	66.8	67.6
Italy	648	85.6	85.6	11.0	2.9	0.6	85.1	86.0
Japan	671	83.7	83.7	13.6	2.4	0.3	83.7	83.7
Jordan	1133	48.9	48.9	40.3	9.6	1.2	47.8	50.1
Kazakhstan	704	72.2	72.2	20.8	5.8	1.2	70.6	73.7
Korea, Rep. of	762	67.3	67.3	27.4	5.2	0.0	62.8	71.2
Kuwait	661	67.8	67.8	25.1	4.1	3.0	71.2	64.3
Lebanon	539	63.0	63.0	25.5	6.0	5.4	60.8	65.4
Lithuania	620	77.5	77.5	21.0	1.3	0.1	78.0	77.1
Malaysia	1383	76.4	76.4	18.2	4.4	1.0	74.3	78.7
Malta	540	71.8	71.8	21.6	6.6	0.0	70.7	72.8
Morocco	1899	59.5	59.5	28.6	9.9	2.0	58.3	60.6
New Zealand	1149	77.2	77.2	16.6	5.5	0.7	76.8	77.7
Norway	666	81.1	81.1	13.3	4.8	0.8	82.7	79.5
Oman	1287	72.9	72.9	17.1	9.2	0.8	75.2	70.7
Qatar	765	68.4	68.4	20.0	9.6	2.0	71.6	65.3
Russian Federation	685	84.7	84.7	8.4	5.5	1.3	86.8	82.4
Saudi Arabia	538	67.7	67.7	22.8	9.2	0.4	68.7	66.5
Singapore	875	62.1	62.1	33.9	3.9	0.1	56.1	68.0
Slovenia	605	88.8	88.8	10.0	0.8	0.4	89.3	88.1
South Africa	1787	56.2	56.2	25.7	14.3	3.8	56.5	56.0
Sweden	583	69.1	69.1	22.8	6.7	1.4	66.0	72.5
Thailand	926	70.0	70.0	22.3	7.0	0.7	70.0	70.0
Turkey	865	57.9	57.9	39.4	2.8	0.0	53.2	62.0
United Arab Emirates	2574	68.1	68.1	25.4	5.6	0.8	68.1	68.2
United States	1457	79.4	79.4	17.2	2.1	1.4	76.2	82.5
International Avg (n=39)	36064	70.4	70.4	22.2	6.1	1.2	69.8	71.0
Buenos Aires, Argentina	428	57.2	57.2	21.2	13.7	8.0	60.5	53.1
Ontario, Canada	639	74.4	74.4	20.7	2.7	2.2	73.8	75.0
Quebec, Canada	561	75.1	75.1	20.2	2.4	2.2	73.6	76.7
Norway (8)	689	82.2	82.2	10.8	5.6	1.4	83.6	80.9
Abu Dhabi, UAE	690	64.3	64.3	27.9	7.2	0.6	62.9	65.7
Dubai, UAE	871	71.8	71.8	23.4	4.1	0.7	73.9	69.7
Florida, US	291	73.4	73.4	20.5	3.9	2.3	71.8	75.1

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_14D (S062022D): Earth Science / Knowing Type: MC Key: B
Label: Fresh water or salt water: ocean

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	90.1	1.9	90.1	6.1	1.9	91.6	88.5
Bahrain	698	80.6	13.3	80.6	5.3	0.9	81.8	79.3
Botswana	849	62.3	20.3	62.3	14.9	2.4	67.5	56.7
Canada	1242	93.0	3.5	93.0	1.5	2.1	91.3	94.8
Chile	690	90.3	3.9	90.3	5.0	0.8	91.5	89.1
Chinese Taipei	821	98.6	0.9	98.6	0.5	0.0	98.3	99.0
Egypt	1114	59.9	20.7	59.9	17.2	2.3	58.4	61.5
England	675	92.9	4.2	92.9	2.0	0.8	92.5	93.4
Georgia	576	77.3	11.7	77.3	8.9	2.0	78.6	75.8
Hong Kong SAR	592	94.6	3.8	94.6	1.1	0.5	94.4	94.9
Hungary	682	91.0	6.9	91.0	1.3	0.8	90.0	92.0
Iran, Islamic Rep. of	880	82.3	11.5	82.3	4.9	1.4	81.5	82.9
Ireland	680	93.6	2.7	93.6	2.2	1.5	95.4	91.8
Israel	790	82.8	10.3	82.8	5.2	1.7	84.5	81.0
Italy	648	93.1	5.2	93.1	1.1	0.6	93.2	93.1
Japan	671	95.3	2.6	95.3	1.8	0.3	96.1	94.5
Jordan	1133	73.7	15.3	73.7	9.8	1.2	73.5	74.0
Kazakhstan	704	78.3	14.9	78.3	5.6	1.2	75.0	81.4
Korea, Rep. of	762	85.3	10.6	85.3	4.1	0.0	84.8	85.7
Kuwait	661	74.2	19.5	74.2	3.4	3.0	79.3	68.9
Lebanon	540	77.7	10.3	77.7	6.6	5.4	78.0	77.3
Lithuania	620	93.7	5.7	93.7	0.4	0.1	93.6	93.8
Malaysia	1383	87.8	7.9	87.8	3.2	1.0	88.7	86.8
Malta	540	90.5	4.5	90.5	4.9	0.0	91.4	89.7
Morocco	1899	74.8	14.1	74.8	9.2	2.0	75.1	74.4
New Zealand	1149	93.0	2.6	93.0	3.6	0.7	95.3	90.5
Norway	666	92.2	4.1	92.2	2.9	0.8	93.5	90.9
Oman	1287	81.3	7.6	81.3	10.4	0.8	86.1	76.6
Qatar	765	76.1	12.4	76.1	9.5	2.0	79.2	73.0
Russian Federation	685	93.7	3.3	93.7	1.7	1.3	94.7	92.7
Saudi Arabia	538	76.9	14.1	76.9	8.6	0.4	77.0	76.8
Singapore	875	94.3	4.6	94.3	1.0	0.1	95.4	93.1
Slovenia	605	96.6	2.4	96.6	0.6	0.4	96.9	96.2
South Africa	1787	70.1	12.4	70.1	13.8	3.8	73.0	67.0
Sweden	583	92.0	2.1	92.0	4.5	1.4	91.7	92.4
Thailand	925	84.4	9.9	84.4	5.1	0.7	86.6	82.0
Turkey	865	83.3	14.3	83.3	2.4	0.0	81.8	84.5
United Arab Emirates	2574	84.5	9.3	84.5	5.4	0.8	87.3	81.8
United States	1457	94.8	2.5	94.8	1.3	1.4	95.5	94.2
International Avg (n=39)	36066	85.3	8.4	85.3	5.1	1.2	86.2	84.4
Buenos Aires, Argentina	433	66.9	11.6	66.9	13.6	7.9	66.3	67.3
Ontario, Canada	638	93.0	3.5	93.0	1.3	2.2	91.7	94.5
Quebec, Canada	564	91.9	3.6	91.9	2.2	2.2	89.9	94.1
Norway (8)	689	91.6	3.3	91.6	3.6	1.4	94.1	89.3
Abu Dhabi, UAE	690	78.4	13.1	78.4	7.9	0.6	82.0	74.7
Dubai, UAE	871	92.2	4.1	92.2	3.0	0.7	93.9	90.5
Florida, US	291	88.9	5.2	88.9	3.6	2.3	90.1	87.8

DIFF = Percent correct
Because of missing gender information, some totals may appear inconsistent.

S14_15 (S062243): Earth Science / Reasoning Type: CR 2 Points
Label: Animals and habitat

COUNTRY	N	20 %	10 %	79 %	V1 %	V2 %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Australia	1455	55.0	20.3	20.4	75.3	55.0	2.0	2.4	53.5	56.6
Bahrain	698	31.6	18.6	38.6	50.2	31.6	8.8	2.4	35.2	28.2
Botswana	850	19.7	23.3	41.7	43.1	19.7	10.0	5.2	20.5	18.9
Canada	1245	56.4	18.5	20.8	74.9	56.4	1.8	2.4	57.3	55.5
Chile	690	30.6	20.3	31.8	50.8	30.6	15.5	1.9	28.7	32.4
Chinese Taipei	821	75.1	14.6	9.6	89.7	75.1	0.7	0.0	75.7	74.4
Egypt	1114	8.2	11.3	58.2	19.5	8.2	16.2	6.0	8.8	7.5
England	675	62.1	17.1	16.7	79.2	62.1	3.0	1.1	64.0	60.1
Georgia	576	14.6	18.8	42.0	33.4	14.6	19.7	4.9	12.1	17.7
Hong Kong SAR	592	66.4	16.7	12.8	83.1	66.4	3.6	0.5	66.8	65.9
Hungary	682	60.0	16.5	21.6	76.5	60.0	1.2	0.8	57.2	62.5
Iran, Islamic Rep. of	880	19.7	21.0	45.8	40.7	19.7	11.0	2.5	20.3	19.1
Ireland	680	63.4	15.4	16.9	78.7	63.4	2.1	2.3	64.0	62.7
Israel	790	39.0	21.9	30.6	60.9	39.0	5.2	3.3	36.4	41.5
Italy	648	40.8	27.2	25.3	68.0	40.8	5.9	0.8	39.1	42.6
Japan	671	71.5	15.2	11.4	86.6	71.5	1.3	0.6	70.0	73.1
Jordan	1133	14.2	23.1	47.3	37.3	14.2	13.4	2.1	19.6	8.9
Kazakhstan	704	27.2	16.0	37.7	43.3	27.2	16.8	2.3	27.9	26.7
Korea, Rep. of	762	68.3	14.4	16.0	82.7	68.3	1.1	0.2	69.0	67.6
Kuwait	661	16.5	16.0	38.5	32.5	16.5	25.0	3.9	19.7	13.3
Lebanon	541	14.8	23.9	38.9	38.7	14.8	16.0	6.4	15.8	13.8
Lithuania	621	49.2	20.1	26.1	69.3	49.2	4.3	0.3	49.8	48.7
Malaysia	1383	34.4	27.4	31.0	61.8	34.4	5.9	1.4	34.4	34.5
Malta	540	37.1	20.4	30.8	57.4	37.1	10.9	0.9	35.2	38.9
Morocco	1896	10.1	23.3	41.1	33.4	10.1	21.4	4.1	10.9	9.4
New Zealand	1149	56.9	19.0	17.8	76.0	56.9	4.6	1.7	55.9	58.0
Norway	666	56.3	17.3	20.4	73.6	56.3	4.7	1.3	55.8	56.8
Oman	1287	21.6	24.7	42.5	46.3	21.6	8.8	2.4	25.4	18.0
Qatar	765	33.1	24.0	29.8	57.0	33.1	9.3	3.8	34.4	31.7
Russian Federation	685	48.7	17.2	23.8	65.9	48.7	8.9	1.3	49.9	47.5
Saudi Arabia	544	15.4	23.3	46.9	38.6	15.4	13.5	1.0	19.1	11.3
Singapore	875	60.1	21.9	16.7	82.0	60.1	1.2	0.1	61.8	58.4
Slovenia	605	64.7	13.8	16.3	78.5	64.7	4.7	0.5	66.9	62.1
South Africa	1787	15.9	21.0	42.4	36.9	15.9	14.1	6.7	16.6	15.1
Sweden	582	56.9	12.9	24.7	69.8	56.9	3.3	2.3	62.5	50.6
Thailand	928	31.0	26.8	32.3	57.8	31.0	8.3	1.7	31.6	30.2
Turkey	865	37.9	21.4	34.4	59.4	37.9	5.8	0.5	39.3	36.7
United Arab Emirates	2573	35.0	23.1	29.5	58.1	35.0	10.4	2.0	35.8	34.2
United States	1457	61.9	17.1	18.0	79.0	61.9	1.1	1.9	58.5	65.3
International Avg (n=39)	36076	40.5	19.6	29.4	60.1	40.5	8.2	2.2	41.2	39.9
Buenos Aires, Argentina	439	16.9	20.7	28.3	37.5	16.9	24.3	9.9	16.4	17.0
Ontario, Canada	640	58.8	17.3	19.3	76.1	58.8	1.9	2.8	61.4	55.8
Quebec, Canada	565	49.3	21.3	25.4	70.6	49.3	1.8	2.2	45.9	52.9
Norway (8)	688	51.4	17.6	24.0	69.1	51.4	5.3	1.6	51.9	51.0
Abu Dhabi, UAE	690	31.1	22.9	32.0	54.0	31.1	11.7	2.3	31.0	31.2
Dubai, UAE	871	48.5	21.7	22.8	70.2	48.5	5.1	1.9	47.7	49.3
Florida, US	291	48.1	20.4	24.9	68.4	48.1	4.0	2.7	48.9	47.2

V1 = Percent scoring 1 pt or better; V2 = Percent scoring 2 pts; Percent right for boys and girls corresponds to percent obtaining full credit.
Because of missing gender information, some totals may appear inconsistent.