

S01_01 (S031356): Life Science / Knowing
Label: Which animal is a predator - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	88.2	3.9	88.2	3.8	2.0	0.9	1.3	85.5	91.1
	2011	880	86.5	4.6	86.5	6.5	2.0	0.3	0.1	84.0	89.0
Austria	2007	691	96.2	1.4	96.2	0.8	0.8	0.8	0.0	95.5	96.8
	2011	674	95.7	2.3	95.7	0.3	0.5	1.1	0.1	95.8	95.6
Chinese Taipei	2007	594	86.8	6.1	86.8	2.0	4.5	0.7	0.0	85.5	87.9
	2011	611	83.1	6.3	83.1	3.8	6.6	0.2	0.0	78.5	87.3
Czech Republic	2007	591	95.3	2.6	95.3	0.4	0.1	0.8	0.9	95.3	95.2
	2011	651	95.7	1.6	95.7	0.2	1.9	0.7	0.0	95.3	96.1
Denmark	2007	505	90.4	7.5	90.4	0.0	0.3	1.1	0.8	89.2	91.7
	2011	578	90.2	7.0	90.2	0.5	0.0	2.1	0.2	89.8	90.7
England	2007	631	90.8	4.6	90.8	1.8	2.2	0.5	0.0	90.4	91.2
	2011	485	86.6	5.6	86.6	6.0	1.3	0.4	0.0	83.6	89.3
Georgia	2007	588	96.8	1.0	96.8	0.4	0.1	0.5	1.3	96.5	97.1
	2011	673	95.2	2.1	95.2	1.5	0.3	0.7	0.2	95.0	95.4
Germany	2007	734	94.1	2.4	94.1	0.7	0.4	1.4	0.9	92.6	95.6
	2011	565	93.9	3.4	93.9	0.7	0.7	0.8	0.5	92.6	95.3
Hong Kong SAR	2007	540	93.3	3.2	93.3	2.4	1.1	0.0	0.0	94.3	92.3
	2011	555	90.4	3.7	90.4	3.0	2.9	0.0	0.0	88.1	92.3
Hungary	2007	587	96.1	2.0	96.1	0.6	0.2	0.3	0.9	96.1	96.2
	2011	741	95.4	2.8	95.4	0.7	0.3	0.2	0.5	94.4	96.6
Iran, Islamic Rep. of	2007	536	88.5	4.5	88.5	2.0	1.7	1.9	1.4	89.6	87.4
	2011	822	92.6	3.8	92.6	1.8	0.5	0.6	0.7	91.1	94.1
Italy	2007	640	95.2	2.9	95.2	0.4	0.8	0.5	0.3	93.5	96.9
	2011	597	95.7	3.1	95.7	0.2	0.5	0.5	0.0	94.4	97.2
Japan	2007	639	85.6	4.7	85.6	5.8	2.9	0.7	0.2	88.3	82.9
	2011	626	82.7	6.5	82.7	6.2	3.9	0.7	0.0	85.4	80.1
Kuwait	2007	525	74.0	11.2	74.0	6.6	4.1	2.4	1.7	81.4	65.6
	2011	577	74.2	12.1	74.2	6.0	4.7	2.8	0.3	78.0	70.0
Lithuania	2007	572	98.1	1.0	98.1	0.0	0.0	0.6	0.3	98.2	98.0
	2011	670	97.1	1.5	97.1	0.1	1.0	0.3	0.0	96.1	98.0
Netherlands	2007	480	97.6	1.7	97.6	0.0	0.3	0.4	0.0	96.2	98.8
	2011	459	98.2	0.7	98.2	0.2	0.2	0.2	0.5	97.7	98.6
New Zealand	2007	718	83.4	5.7	83.4	5.7	2.8	1.9	0.4	83.3	83.4
	2011	786	85.6	7.3	85.6	5.3	1.5	0.3	0.0	81.9	89.0
Norway	2007	591	86.9	8.9	86.9	0.3	0.8	0.6	2.6	86.0	87.8
	2011	463	88.3	8.4	88.3	0.3	0.5	2.5	0.0	86.8	90.1
Russian Federation	2007	644	97.1	1.4	97.1	0.3	0.0	1.0	0.2	98.7	95.7
	2011	630	97.8	1.0	97.8	0.3	0.1	0.8	0.0	97.9	97.7
Singapore	2007	714	87.9	4.6	87.9	4.9	2.2	0.4	0.0	86.1	89.6
	2011	906	88.4	5.4	88.4	3.3	2.9	0.0	0.0	88.1	88.7
Slovak Republic	2007	715	92.5	2.8	92.5	2.6	0.8	1.1	0.2	88.7	96.3
	2011	817	93.5	4.8	93.5	0.3	0.5	0.8	0.1	93.0	94.0
Slovenia	2007	625	86.7	7.1	86.7	1.6	2.7	1.7	0.2	86.5	86.9
	2011	642	90.9	5.5	90.9	1.4	1.5	0.4	0.3	91.6	90.4

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

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COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	90.8	6.6	90.8	0.1	0.9	1.3	0.2	89.9	91.7
	2011	666	89.3	9.4	89.3	0.2	0.3	0.8	0.0	87.6	90.9
Tunisia	2007	594	73.3	2.3	73.3	4.6	2.0	13.0	4.9	76.4	70.4
	2011	694	81.1	3.6	81.1	4.6	4.4	4.0	2.3	85.0	77.3
United States	2007	1128	88.4	4.8	88.4	3.3	2.4	0.7	0.3	84.6	92.2
	2011	1790	90.5	3.8	90.5	3.7	1.5	0.5	0.1	88.4	92.6
International Avg. (25)	2007	15824	90.2	4.2	90.2	2.0	1.4	1.4	0.8	89.9	90.3
	2011	17558	90.3	4.6	90.3	2.3	1.6	0.9	0.2	89.6	91.0
Alberta, Canada	2007	564	89.7	2.9	89.7	4.2	1.5	1.5	0.3	89.2	90.1
	2011	527	91.5	2.3	91.5	3.0	2.4	0.4	0.4	89.7	93.5
Ontario, Canada	2007	503	89.1	3.2	89.1	3.9	2.0	1.4	0.4	87.1	91.0
	2011	654	87.5	5.2	87.5	3.3	1.9	1.3	0.9	84.7	90.1
Quebec, Canada	2007	578	91.1	5.2	91.1	2.2	0.6	0.8	0.0	88.0	95.0
	2011	597	93.5	4.0	93.5	0.8	0.7	1.0	0.0	93.6	93.4
Dubai, UAE	2007	434	72.8	10.2	72.8	10.1	3.1	3.5	0.3	68.3	77.0
	2011	887	70.2	9.5	70.2	12.5	5.5	2.2	0.2	69.7	70.5

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

S01_02 (S031291): Life Science / Applying
Label: What walrus has to keep it warm - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	91.1	91.1	1.5	2.3	2.7	1.0	1.3	92.6	89.5
	2011	880	89.6	89.6	3.1	3.1	3.6	0.5	0.1	90.1	89.1
Austria	2007	691	95.2	95.2	0.9	1.3	1.8	0.9	0.0	94.7	95.5
	2011	674	94.4	94.4	1.0	2.0	2.3	0.2	0.1	94.7	94.1
Chinese Taipei	2007	594	82.9	82.9	1.9	3.1	11.4	0.7	0.0	79.7	85.6
	2011	611	85.3	85.3	2.7	3.5	8.2	0.4	0.0	83.8	86.7
Czech Republic	2007	591	88.3	88.3	2.6	2.2	5.3	0.6	0.9	86.1	90.5
	2011	651	95.1	95.1	1.6	0.5	2.2	0.6	0.0	94.5	95.8
Denmark	2007	506	91.8	91.8	0.5	0.5	5.6	0.6	0.9	91.4	92.4
	2011	578	91.9	91.9	0.9	0.9	4.1	1.7	0.5	92.6	91.2
England	2007	631	92.0	92.0	2.1	1.5	4.1	0.3	0.0	93.3	90.9
	2011	485	89.5	89.5	3.2	2.1	4.9	0.3	0.0	91.8	87.5
Georgia	2007	588	61.4	61.4	8.7	4.8	20.7	3.1	1.3	59.7	63.1
	2011	673	87.5	87.5	3.3	3.1	4.7	1.2	0.2	85.0	90.1
Germany	2007	734	94.7	94.7	0.7	2.0	1.3	0.5	0.9	93.5	95.8
	2011	565	94.3	94.3	0.9	2.1	1.5	0.7	0.5	94.9	93.7
Hong Kong SAR	2007	540	91.6	91.6	2.6	1.9	3.9	0.0	0.0	92.7	90.4
	2011	555	88.9	88.9	1.9	3.4	5.6	0.2	0.0	87.7	90.0
Hungary	2007	587	93.7	93.7	0.6	0.4	2.3	2.2	0.9	94.2	93.2
	2011	741	90.8	90.8	3.0	1.8	3.4	0.5	0.5	88.9	92.9
Iran, Islamic Rep. of	2007	536	69.6	69.6	7.7	2.9	16.5	1.4	1.8	71.7	67.5
	2011	822	72.3	72.3	4.6	5.1	16.4	1.0	0.7	72.2	72.3
Italy	2007	638	93.1	93.1	1.4	1.4	3.4	0.1	0.7	93.8	92.3
	2011	597	94.6	94.6	1.1	1.3	2.7	0.3	0.0	94.7	94.6
Japan	2007	639	83.5	83.5	3.4	6.5	6.0	0.4	0.2	84.5	82.5
	2011	626	84.7	84.7	3.4	4.0	7.6	0.3	0.0	82.8	86.6
Kuwait	2007	525	53.9	53.9	10.5	11.8	16.9	5.0	1.9	60.2	46.7
	2011	577	44.0	44.0	11.3	22.2	17.1	5.0	0.3	49.0	38.4
Lithuania	2007	572	92.9	92.9	0.5	0.5	4.8	1.0	0.3	92.3	93.5
	2011	670	93.5	93.5	1.4	0.3	4.4	0.5	0.0	94.1	92.9
Netherlands	2007	480	94.4	94.4	1.0	0.5	3.7	0.4	0.0	93.3	95.5
	2011	459	93.5	93.5	0.7	1.9	3.5	0.0	0.5	93.4	93.5
New Zealand	2007	718	86.1	86.1	4.7	3.2	4.0	1.5	0.4	90.2	81.7
	2011	786	88.0	88.0	3.0	3.7	4.8	0.6	0.0	86.3	89.5
Norway	2007	591	80.7	80.7	2.2	6.5	7.4	0.6	2.6	79.3	82.4
	2011	463	79.3	79.3	2.8	9.8	5.8	2.4	0.0	79.9	78.6
Russian Federation	2007	644	97.3	97.3	0.4	0.2	1.3	0.0	0.8	98.1	96.6
	2011	630	96.6	96.6	1.3	0.8	0.8	0.6	0.0	96.7	96.5
Singapore	2007	714	85.7	85.7	7.6	2.8	3.5	0.4	0.0	84.5	86.9
	2011	906	85.6	85.6	6.9	4.2	3.4	0.0	0.0	86.7	84.4
Slovak Republic	2007	715	88.3	88.3	3.0	2.9	4.1	1.5	0.2	82.7	94.0
	2011	817	89.8	89.8	2.1	3.5	3.7	0.8	0.1	87.7	91.9
Slovenia	2007	625	81.0	81.0	6.5	2.0	8.1	2.3	0.2	82.5	79.6
	2011	640	83.8	83.8	4.9	2.0	8.4	0.7	0.3	80.1	86.9

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

S01_02 (S031291): Life Science / Applying
Label: What walrus has to keep it warm - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	93.8	93.8	0.3	2.9	2.0	0.7	0.2	94.1	93.6
	2011	666	93.8	93.8	0.9	2.4	2.3	0.6	0.0	93.9	93.8
Tunisia	2007	594	44.3	44.3	11.3	10.3	16.4	12.1	5.6	48.1	40.7
	2011	686	46.6	46.6	10.9	13.2	21.9	5.1	2.3	48.0	45.1
United States	2007	1128	88.4	88.4	3.4	3.0	4.1	0.7	0.3	86.8	89.9
	2011	1790	91.1	91.1	3.5	2.4	2.4	0.5	0.1	91.1	91.2
International Avg. (25)	2007	15823	84.6	84.6	3.4	3.1	6.5	1.5	0.9	84.8	84.4
	2011	17548	85.8	85.8	3.2	4.0	5.8	1.0	0.2	85.6	85.9
Alberta, Canada	2007	564	94.2	94.2	1.6	1.0	1.7	1.2	0.3	96.3	92.0
	2011	527	91.8	91.8	3.2	1.2	3.0	0.4	0.4	90.7	92.9
Ontario, Canada	2007	503	92.2	92.2	1.6	1.9	2.6	0.9	0.9	91.9	92.5
	2011	654	90.2	90.2	2.9	2.9	2.5	0.7	0.9	89.8	90.5
Quebec, Canada	2007	578	93.0	93.0	1.5	2.7	2.5	0.3	0.0	92.5	93.7
	2011	597	93.8	93.8	1.2	2.2	2.0	0.8	0.0	95.0	92.4
Dubai, UAE	2007	434	69.9	69.9	7.8	8.6	10.9	2.5	0.3	69.5	70.3
	2011	887	70.3	70.3	9.5	7.9	10.9	1.1	0.3	72.8	68.1

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

S01_03 (S031230): Life Science / Applying
Label: Birds/bats/butterflies share - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	91.9	0.5	1.3	4.5	91.9	0.4	1.4	91.3	92.7
	2011	880	91.8	1.8	2.2	3.8	91.8	0.3	0.1	94.7	89.0
Austria	2007	691	91.2	0.9	1.0	5.8	91.2	1.1	0.0	91.2	91.2
	2011	674	94.4	1.2	0.8	3.2	94.4	0.3	0.1	95.8	93.1
Chinese Taipei	2007	594	78.8	3.2	1.6	15.5	78.8	0.9	0.0	76.4	81.0
	2011	611	82.7	2.4	0.7	12.9	82.7	1.3	0.0	80.7	84.5
Czech Republic	2007	590	87.8	0.6	2.4	7.8	87.8	0.5	0.9	91.6	83.9
	2011	651	90.2	1.1	1.7	6.5	90.2	0.5	0.0	91.1	89.1
Denmark	2007	506	86.2	3.9	1.9	6.1	86.2	0.8	1.0	89.6	82.5
	2011	578	90.7	2.5	1.6	3.7	90.7	0.9	0.5	91.7	89.7
England	2007	631	93.5	1.9	0.6	3.0	93.5	1.0	0.0	95.4	91.8
	2011	485	93.6	1.4	1.4	2.9	93.6	0.6	0.0	92.8	94.3
Georgia	2007	588	81.5	6.9	2.4	5.5	81.5	1.1	2.7	81.6	81.4
	2011	680	85.7	5.8	1.4	5.7	85.7	1.1	0.4	87.4	83.9
Germany	2007	734	92.2	1.7	0.8	3.3	92.2	1.2	0.9	92.7	91.7
	2011	565	93.2	0.9	0.0	3.9	93.2	1.0	1.0	94.7	91.7
Hong Kong SAR	2007	540	80.7	2.5	1.1	15.4	80.7	0.2	0.0	81.4	80.0
	2011	555	79.1	3.2	2.7	14.7	79.1	0.4	0.0	80.1	78.2
Hungary	2007	587	84.6	2.3	1.4	8.5	84.6	1.9	1.4	86.6	82.4
	2011	741	84.4	3.2	1.6	8.8	84.4	1.4	0.6	85.5	83.3
Iran, Islamic Rep. of	2007	534	56.3	16.4	3.1	18.8	56.3	3.6	1.8	56.0	56.6
	2011	822	62.2	16.2	4.3	15.9	62.2	0.5	0.9	64.4	60.1
Italy	2007	635	85.6	2.9	1.2	9.0	85.6	0.7	0.7	85.0	86.3
	2011	597	88.8	0.2	1.3	8.9	88.8	0.9	0.0	85.4	92.5
Japan	2007	639	92.2	3.2	1.1	1.9	92.2	1.4	0.2	92.0	92.4
	2011	626	86.8	4.9	2.7	4.7	86.8	1.0	0.0	84.6	89.0
Kuwait	2007	525	55.4	11.2	6.0	18.3	55.4	6.5	2.5	64.3	45.1
	2011	577	54.3	11.4	8.6	19.4	54.3	6.0	0.3	60.6	47.4
Lithuania	2007	572	89.9	1.8	0.4	4.8	89.9	2.9	0.3	92.2	87.5
	2011	670	88.5	2.4	1.8	4.9	88.5	2.3	0.0	91.6	85.7
Netherlands	2007	480	89.8	1.1	1.0	7.1	89.8	1.0	0.0	89.7	89.9
	2011	459	91.1	1.7	0.5	5.5	91.1	0.7	0.5	94.2	88.0
New Zealand	2007	718	91.3	2.3	1.0	3.7	91.3	1.2	0.4	93.7	88.8
	2011	786	92.8	1.6	1.9	2.3	92.8	1.2	0.1	92.9	92.7
Norway	2007	591	87.3	4.6	0.9	3.3	87.3	1.3	2.6	87.1	87.5
	2011	463	93.2	1.9	0.9	2.3	93.2	1.4	0.3	93.0	93.5
Russian Federation	2007	644	89.8	1.9	1.0	5.9	89.8	0.6	0.8	93.1	86.6
	2011	630	92.2	1.3	0.3	5.4	92.2	0.8	0.0	93.2	91.2
Singapore	2007	714	93.3	2.5	0.7	3.1	93.3	0.5	0.0	94.7	91.9
	2011	906	95.2	1.3	0.6	2.8	95.2	0.1	0.0	96.0	94.3
Slovak Republic	2007	715	89.7	2.9	1.1	5.6	89.7	0.5	0.4	89.8	89.6
	2011	817	89.1	1.8	1.5	6.7	89.1	0.8	0.1	89.0	89.1
Slovenia	2007	625	87.8	3.5	2.0	4.2	87.8	2.0	0.5	88.4	87.2
	2011	642	91.4	3.3	1.0	2.5	91.4	1.5	0.4	91.8	91.1

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

S01_03 (S031230): Life Science / Applying
Label: Birds/bats/butterflies share - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	94.0	2.3	0.2	1.8	94.0	1.3	0.3	94.5	93.5
	2011	666	94.8	2.7	0.5	1.2	94.8	0.7	0.0	96.2	93.5
Tunisia	2007	594	52.0	5.5	3.6	8.8	52.0	24.3	5.7	58.3	46.1
	2011	670	61.4	8.7	4.2	12.7	61.4	10.4	2.7	69.9	53.0
United States	2007	1128	95.7	0.8	0.4	1.6	95.7	1.2	0.3	95.9	95.5
	2011	1790	95.6	0.5	0.5	1.6	95.6	1.7	0.1	96.0	95.3

International Avg. (25)	2007	15817	84.7	3.5	1.5	6.9	84.7	2.3	1.0	86.1	83.3
	2011	17541	86.5	3.3	1.8	6.5	86.5	1.5	0.3	87.7	85.3

Alberta, Canada	2007	564	93.2	2.1	0.2	3.1	93.2	1.1	0.3	94.5	91.7
	2011	527	95.8	1.2	0.4	2.1	95.8	0.0	0.5	95.7	95.9
Ontario, Canada	2007	503	93.5	1.6	0.2	2.4	93.5	1.4	0.9	92.5	94.4
	2011	654	93.0	1.8	0.8	2.8	93.0	0.7	1.0	93.0	93.0
Quebec, Canada	2007	578	91.3	1.5	0.4	5.5	91.3	1.2	0.0	93.4	88.8
	2011	597	92.1	0.9	0.6	5.0	92.1	1.4	0.0	91.8	92.4
Dubai, UAE	2007	434	78.5	7.1	2.6	8.6	78.5	2.8	0.3	83.9	73.7
	2011	887	78.9	9.5	3.1	6.4	78.9	1.8	0.3	84.3	74.1

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

S01_04 (S031325): Life Science / Applying
Label: Manuel's temperature rise - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	37.7	1.2	35.4	19.6	4.7	1.4	37.7	39.1	36.2
	2011	880	31.7	1.4	33.7	25.6	7.5	0.1	31.7	36.8	26.8
Austria	2007	691	30.7	0.3	26.0	25.0	18.0	0.0	30.7	34.6	27.6
	2011	674	36.5	0.4	28.9	23.5	10.6	0.1	36.5	38.8	34.3
Chinese Taipei	2007	594	56.4	3.5	19.6	11.9	8.6	0.0	56.4	56.3	56.5
	2011	611	56.6	7.1	17.6	12.4	6.3	0.0	56.6	56.2	57.0
Czech Republic	2007	590	47.5	10.2	15.4	14.9	11.2	0.9	47.5	48.2	46.8
	2011	651	54.6	9.0	13.2	16.0	7.2	0.0	54.6	58.9	50.0
Denmark	2007	505	59.3	1.5	13.9	14.2	9.6	1.4	59.3	60.9	57.6
	2011	578	60.9	1.4	15.0	15.5	6.6	0.5	60.9	64.8	56.7
England	2007	631	24.1	0.6	44.2	23.0	8.0	0.1	24.1	26.2	22.2
	2011	485	25.1	1.2	39.1	29.0	5.6	0.0	25.1	26.6	23.8
Georgia	2007	588	42.1	2.7	5.2	18.2	28.9	2.9	42.1	48.7	35.7
	2011	680	32.9	15.2	9.5	21.2	20.8	0.4	32.9	38.2	27.4
Germany	2007	734	20.1	0.6	40.6	22.8	14.7	1.2	20.1	22.7	17.7
	2011	565	24.4	0.7	41.5	18.7	13.7	1.0	24.4	26.4	22.4
Hong Kong SAR	2007	540	63.6	1.6	12.7	17.9	4.3	0.0	63.6	66.3	60.7
	2011	555	63.2	3.0	12.6	16.3	4.9	0.0	63.2	66.0	60.8
Hungary	2007	587	60.8	5.7	8.5	11.8	11.9	1.4	60.8	60.4	61.3
	2011	741	57.1	3.6	14.7	15.7	8.2	0.7	57.1	57.4	56.8
Iran, Islamic Rep. of	2007	534	14.6	3.8	13.8	28.6	36.6	2.6	14.6	14.2	15.0
	2011	822	17.7	3.4	19.8	28.9	29.4	0.9	17.7	21.8	13.7
Italy	2007	640	59.9	5.0	12.1	11.4	10.6	1.0	59.9	61.7	58.0
	2011	597	60.2	4.3	15.3	11.9	8.3	0.0	60.2	58.7	61.9
Japan	2007	639	41.3	6.0	28.4	21.2	2.9	0.2	41.3	44.5	38.1
	2011	626	47.2	3.7	23.0	24.1	2.0	0.0	47.2	49.9	44.5
Kuwait	2007	525	5.2	2.8	4.5	26.1	58.2	3.1	5.2	6.7	3.5
	2011	580	7.0	4.5	11.4	27.5	49.2	0.4	7.0	7.7	6.3
Lithuania	2007	572	48.9	6.0	15.8	18.8	10.3	0.3	48.9	52.4	45.2
	2011	670	51.7	7.9	20.5	13.4	6.3	0.2	51.7	54.7	48.9
Netherlands	2007	480	57.4	2.1	20.4	17.6	2.5	0.0	57.4	64.7	50.6
	2011	459	51.8	1.2	27.5	15.6	3.4	0.5	51.8	57.5	45.7
New Zealand	2007	718	29.7	1.0	29.9	27.2	11.8	0.4	29.7	33.6	25.7
	2011	786	25.0	1.6	40.8	25.7	6.7	0.2	25.0	28.8	21.6
Norway	2007	591	55.6	2.2	13.7	15.3	9.8	3.4	55.6	55.1	56.1
	2011	463	63.5	2.9	11.9	12.5	8.9	0.3	63.5	64.7	62.2
Russian Federation	2007	644	59.3	10.4	5.7	14.4	9.4	0.9	59.3	59.4	59.1
	2011	630	54.5	5.7	13.1	15.9	10.7	0.0	54.5	56.3	52.7
Singapore	2007	714	51.3	1.8	20.5	24.3	2.1	0.0	51.3	49.6	53.0
	2011	906	49.9	4.5	24.0	20.3	1.3	0.0	49.9	52.4	47.3
Slovak Republic	2007	715	51.5	10.9	12.4	13.6	11.2	0.4	51.5	52.9	50.2
	2011	817	54.9	6.6	13.9	15.3	9.1	0.1	54.9	56.9	52.9
Slovenia	2007	625	51.7	8.1	6.2	20.2	12.8	0.8	51.7	54.1	49.7
	2011	642	50.2	10.4	7.1	21.9	10.0	0.5	50.2	48.5	51.6

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

S01_04 (S031325): Life Science / Applying
Label: Manuel's temperature rise - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	48.1	9.7	18.7	13.6	9.0	1.0	48.1	55.5	40.1
	2011	666	58.9	4.1	18.6	12.4	6.1	0.0	58.9	67.0	51.1
Tunisia	2007	594	10.6	6.6	8.3	40.7	26.5	7.2	10.6	15.1	6.4
	2011	698	20.1	9.5	8.6	33.0	25.9	3.0	20.1	24.9	15.2
United States	2007	1128	46.6	5.3	26.1	18.1	3.3	0.6	46.6	48.6	44.5
	2011	1790	52.3	1.5	20.3	21.4	4.5	0.1	52.3	55.8	48.7

International Avg. (25)	2007	15821	43.0	4.4	18.3	19.6	13.5	1.2	43.0	45.3	40.7
	2011	17572	44.3	4.6	20.1	19.7	10.9	0.4	44.3	47.0	41.6

Alberta, Canada	2007	564	40.2	3.0	30.2	19.0	7.2	0.3	40.2	43.6	36.7
	2011	527	36.5	2.6	36.9	20.0	3.6	0.5	36.5	38.4	34.4
Ontario, Canada	2007	503	40.2	3.6	30.8	17.6	6.7	1.1	40.2	46.8	34.2
	2011	654	36.6	2.1	34.1	21.1	5.0	1.0	36.6	44.7	29.3
Quebec, Canada	2007	578	32.2	1.2	31.2	22.1	13.3	0.0	32.2	33.2	31.0
	2011	597	46.1	1.6	31.5	15.5	5.3	0.0	46.1	51.0	40.3
Dubai, UAE	2007	434	25.7	5.9	8.7	30.9	28.2	0.6	25.7	26.7	24.8
	2011	887	31.7	1.5	12.7	32.1	21.9	0.3	31.7	35.5	28.2

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

S01_05 (S031068): Physical Science / Reasoning
Label: Maria's experiment with salt/water - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	56.4	56.4	21.1	11.1	7.6	2.0	1.8	55.1	57.9
	2011	880	57.6	57.6	21.3	12.9	6.2	1.8	0.3	60.2	55.0
Austria	2007	691	49.9	49.9	15.3	17.1	7.8	9.9	0.0	47.9	51.4
	2011	674	53.6	53.6	19.4	16.8	4.8	5.3	0.1	56.3	51.0
Chinese Taipei	2007	594	60.1	60.1	16.7	15.0	4.3	3.8	0.0	62.1	58.4
	2011	611	62.8	62.8	15.6	16.9	3.0	1.7	0.0	63.5	62.1
Czech Republic	2007	591	47.4	47.4	18.6	21.8	3.9	7.1	1.2	49.9	44.8
	2011	651	58.8	58.8	13.7	18.5	6.4	2.3	0.2	58.1	59.5
Denmark	2007	505	48.8	48.8	18.4	17.6	5.7	8.1	1.4	50.6	46.8
	2011	578	59.0	59.0	14.5	14.1	5.0	6.8	0.6	63.0	54.9
England	2007	631	62.2	62.2	19.8	7.7	7.8	2.2	0.3	66.3	58.5
	2011	485	63.4	63.4	19.2	8.8	5.7	3.0	0.0	66.9	60.3
Georgia	2007	588	26.1	26.1	14.1	25.3	18.0	13.4	3.2	30.0	22.3
	2011	680	27.2	27.2	21.1	29.1	13.5	8.4	0.8	27.7	26.7
Germany	2007	734	57.7	57.7	18.4	13.5	4.2	4.8	1.4	56.9	58.5
	2011	565	55.3	55.3	18.2	16.2	6.1	3.3	1.0	57.8	52.8
Hong Kong SAR	2007	540	66.8	66.8	13.0	14.1	5.0	1.1	0.0	66.7	66.8
	2011	555	64.4	64.4	15.0	15.4	4.2	0.9	0.0	63.7	65.1
Hungary	2007	587	54.8	54.8	15.9	15.4	6.3	5.3	2.4	54.5	55.0
	2011	741	54.6	54.6	21.4	15.3	5.5	2.3	0.8	56.7	52.3
Iran, Islamic Rep. of	2007	534	32.3	32.3	19.8	24.7	9.5	9.6	4.2	35.6	28.9
	2011	821	36.0	36.0	26.4	20.0	7.0	9.2	1.4	38.1	34.0
Italy	2007	639	53.8	53.8	19.4	16.1	5.5	4.1	1.1	56.1	51.5
	2011	597	55.7	55.7	16.8	19.2	4.6	3.2	0.4	58.7	52.3
Japan	2007	639	62.1	62.1	15.3	17.3	4.0	1.1	0.2	65.6	58.6
	2011	626	68.1	68.1	12.3	14.8	3.3	1.4	0.0	73.4	62.9
Kuwait	2007	525	24.1	24.1	25.0	16.0	16.9	13.4	4.6	25.3	22.8
	2011	574	32.9	32.9	24.1	23.5	10.5	8.5	0.4	33.2	32.6
Lithuania	2007	572	52.0	52.0	17.5	21.4	5.0	3.3	0.8	57.6	46.3
	2011	670	51.9	51.9	16.4	23.0	6.2	2.4	0.2	61.0	43.5
Netherlands	2007	480	43.8	43.8	35.7	15.2	2.0	3.2	0.0	45.7	42.1
	2011	459	48.5	48.5	34.6	13.0	1.6	1.9	0.5	51.0	45.6
New Zealand	2007	718	54.2	54.2	19.3	15.4	6.8	3.7	0.6	59.6	48.6
	2011	786	51.4	51.4	23.8	15.4	7.1	2.1	0.2	49.5	53.1
Norway	2007	591	41.0	41.0	20.2	22.4	6.4	6.5	3.4	39.6	42.7
	2011	463	46.4	46.4	24.8	18.4	5.9	4.1	0.5	52.5	39.7
Russian Federation	2007	644	52.9	52.9	12.9	22.5	7.7	2.6	1.5	58.7	47.4
	2011	630	57.6	57.6	16.0	16.7	7.1	2.6	0.1	58.9	56.4
Singapore	2007	714	68.1	68.1	13.4	12.4	5.6	0.4	0.0	69.0	67.3
	2011	906	75.1	75.1	10.0	10.9	3.4	0.6	0.0	76.5	73.6
Slovak Republic	2007	715	44.8	44.8	16.9	25.4	5.7	6.9	0.5	42.7	46.9
	2011	817	53.4	53.4	17.7	19.8	4.8	4.2	0.1	52.8	53.9
Slovenia	2007	625	43.8	43.8	24.0	17.3	7.4	5.8	1.7	45.7	42.2
	2011	641	51.6	51.6	24.1	13.9	5.8	3.5	1.0	56.3	47.5

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

S01_05 (S031068): Physical Science / Reasoning
Label: Maria's experiment with salt/water - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	47.4	47.4	22.5	21.0	3.6	4.3	1.3	51.1	43.4
	2011	666	51.8	51.8	20.7	17.8	5.2	4.4	0.1	54.7	49.1
Tunisia	2007	594	15.5	15.5	20.1	25.9	8.0	23.1	7.5	18.7	12.6
	2011	684	16.5	16.5	24.8	30.6	13.1	10.8	4.2	15.5	17.5
United States	2007	1128	64.3	64.3	14.9	11.6	6.8	1.5	0.8	60.6	68.0
	2011	1790	63.7	63.7	16.2	11.8	5.8	2.2	0.2	63.6	63.9

International Avg. (25)	2007	15821	49.2	49.2	18.7	17.7	6.9	5.9	1.6	50.9	47.6
	2011	17550	52.7	52.7	19.5	17.3	6.1	3.9	0.5	54.8	50.6

Alberta, Canada	2007	564	60.1	60.1	19.2	10.6	7.2	2.4	0.4	56.6	63.8
	2011	527	59.1	59.1	19.3	14.2	5.9	0.9	0.5	58.3	59.9
Ontario, Canada	2007	503	53.9	53.9	19.5	14.4	8.3	1.9	2.0	57.5	50.6
	2011	654	58.5	58.5	20.3	10.7	7.0	2.2	1.4	61.5	55.8
Quebec, Canada	2007	578	45.7	45.7	21.9	20.2	7.8	4.1	0.3	45.5	45.9
	2011	597	48.7	48.7	21.6	17.7	9.5	2.5	0.0	50.6	46.4
Dubai, UAE	2007	434	48.4	48.4	22.2	17.8	4.2	6.7	0.6	47.1	49.6
	2011	887	52.2	52.2	21.3	15.8	6.1	4.2	0.4	52.0	52.5

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

S01_06 (S031418): Physical Science / Applying
Label: Position of piece of ice in water - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	61.1	10.8	61.1	10.1	14.9	1.2	1.9	58.4	64.1
	2011	880	58.2	13.0	58.2	15.2	12.4	0.8	0.3	57.7	58.7
Austria	2007	691	45.8	14.6	45.8	17.5	20.5	1.4	0.2	38.5	51.5
	2011	674	44.8	15.2	44.8	18.7	19.9	1.2	0.1	40.5	49.0
Chinese Taipei	2007	594	64.2	14.5	64.2	3.4	17.1	0.8	0.0	58.4	69.3
	2011	611	58.9	14.8	58.9	4.8	20.5	1.0	0.0	50.0	67.1
Czech Republic	2007	591	45.8	19.4	45.8	2.3	29.1	2.1	1.2	38.3	53.3
	2011	651	52.2	12.8	52.2	5.6	28.6	0.6	0.2	50.4	54.1
Denmark	2007	506	66.6	8.9	66.6	7.7	14.6	0.1	2.1	62.3	71.3
	2011	578	72.6	11.0	72.6	3.8	10.7	0.9	1.0	67.6	78.0
England	2007	631	45.1	8.4	45.1	22.1	22.5	1.6	0.4	42.1	47.8
	2011	485	51.4	6.9	51.4	18.9	21.4	1.1	0.4	47.4	54.9
Georgia	2007	588	12.6	22.0	12.6	15.0	41.5	4.6	4.3	8.9	16.2
	2011	680	20.5	22.6	20.5	13.6	41.4	1.2	0.8	20.9	20.1
Germany	2007	734	39.4	11.6	39.4	22.9	23.2	1.3	1.5	37.5	41.2
	2011	565	41.2	14.5	41.2	21.2	20.3	1.9	1.0	37.5	44.9
Hong Kong SAR	2007	540	52.6	10.5	52.6	21.3	15.3	0.1	0.3	48.9	56.3
	2011	555	59.0	13.8	59.0	16.0	10.6	0.6	0.0	56.1	61.6
Hungary	2007	587	31.8	16.3	31.8	11.9	35.7	1.7	2.7	25.5	38.4
	2011	741	38.9	22.0	38.9	8.6	28.8	0.9	0.8	36.1	42.1
Iran, Islamic Rep. of	2007	534	12.2	30.8	12.2	11.4	37.9	3.3	4.4	7.7	16.8
	2011	822	26.3	31.0	26.3	14.0	24.8	2.3	1.6	22.9	29.6
Italy	2007	641	30.8	16.0	30.8	22.4	28.3	0.8	1.7	27.1	34.5
	2011	597	37.4	14.5	37.4	20.4	26.2	0.8	0.7	29.5	46.4
Japan	2007	639	77.3	5.8	77.3	4.2	12.0	0.5	0.2	75.5	79.1
	2011	626	83.0	3.7	83.0	5.6	7.3	0.3	0.0	80.7	85.3
Kuwait	2007	525	26.0	25.7	26.0	13.8	23.5	5.9	5.0	26.1	26.0
	2011	574	28.0	20.5	28.0	16.2	28.7	5.7	0.9	23.0	33.5
Lithuania	2007	572	41.3	12.0	41.3	10.4	34.1	1.2	1.0	37.8	45.0
	2011	670	45.5	17.9	45.5	8.8	27.0	0.6	0.2	42.5	48.3
Netherlands	2007	480	45.0	3.8	45.0	26.2	23.8	1.1	0.0	37.9	51.7
	2011	459	53.1	5.3	53.1	20.9	18.7	1.5	0.5	49.0	57.6
New Zealand	2007	718	46.3	14.9	46.3	15.2	19.5	3.7	0.6	43.8	48.8
	2011	786	51.5	14.1	51.5	15.9	16.1	2.1	0.3	49.8	53.0
Norway	2007	591	46.0	18.8	46.0	14.7	15.3	0.9	4.3	43.5	49.0
	2011	463	55.5	18.7	55.5	13.9	10.4	0.9	0.7	52.0	59.4
Russian Federation	2007	644	43.5	15.3	43.5	3.7	34.9	0.9	1.6	38.5	48.3
	2011	630	48.2	15.6	48.2	4.7	31.0	0.3	0.1	45.7	50.6
Singapore	2007	714	79.8	7.7	79.8	3.3	8.6	0.5	0.0	79.2	80.5
	2011	906	75.7	7.4	75.7	6.5	9.6	0.8	0.0	74.7	76.8
Slovak Republic	2007	715	31.1	20.8	31.1	8.0	37.0	2.7	0.5	25.8	36.4
	2011	817	44.0	23.0	44.0	9.3	22.8	0.8	0.1	41.1	46.9
Slovenia	2007	625	41.4	15.9	41.4	10.9	28.9	0.7	2.1	36.6	45.7
	2011	642	50.7	11.7	50.7	11.3	24.2	1.2	1.0	45.2	55.3

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

S01_06 (S031418): Physical Science / Applying
Label: Position of piece of ice in water - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	56.0	9.6	56.0	13.2	18.6	1.1	1.5	56.3	55.5
	2011	666	60.3	11.5	60.3	11.9	14.1	2.0	0.2	56.5	63.9
Tunisia	2007	594	9.0	12.9	9.0	12.5	37.8	19.8	8.0	9.0	9.0
	2011	690	12.2	12.1	12.2	16.0	44.1	11.2	4.5	9.9	14.4
United States	2007	1128	61.4	9.1	61.4	14.9	11.9	1.9	0.8	57.3	65.5
	2011	1790	60.8	10.1	60.8	14.4	11.7	2.5	0.5	55.5	66.2
International Avg. (25)	2007	15824	44.5	14.2	44.5	12.8	24.3	2.4	1.9	40.8	48.0
	2011	17558	49.2	14.5	49.2	12.7	21.2	1.7	0.6	45.7	52.7
Alberta, Canada	2007	564	62.2	8.1	62.2	13.1	13.6	2.3	0.7	55.9	68.8
	2011	527	61.8	11.3	61.8	15.9	9.2	1.3	0.5	62.8	60.8
Ontario, Canada	2007	503	59.0	8.7	59.0	12.8	14.7	2.4	2.4	49.9	67.3
	2011	654	57.2	9.2	57.2	17.0	12.5	2.0	2.0	51.0	62.9
Quebec, Canada	2007	578	58.8	9.9	58.8	14.5	14.6	1.8	0.5	53.0	65.9
	2011	597	64.0	11.0	64.0	12.2	11.2	1.5	0.0	60.0	68.7
Dubai, UAE	2007	434	33.3	19.2	33.3	13.5	29.8	3.5	0.7	31.3	35.1
	2011	887	38.3	17.5	38.3	15.5	26.7	1.6	0.4	34.8	41.4

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

S01_07A (S031197A): Physical Science / Knowing
Label: Two uses of electricity - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	30.8	5.0	41.7	1.7	1.4	6.2	8.3	2.5	2.4	80.6	81.8	79.2
	2011	880	33.8	3.7	43.3	2.1	0.2	2.8	9.9	3.9	0.3	83.0	85.3	80.9
Austria	2007	691	38.1	11.9	24.5	0.1	0.1	3.5	9.9	11.6	0.2	74.7	68.1	79.9
	2011	674	33.5	9.0	33.3	0.7	0.6	2.5	10.8	9.6	0.1	77.1	75.1	78.9
Chinese Taipei	2007	594	31.5	1.7	45.7	1.3	3.0	8.6	4.7	3.5	0.0	83.2	79.8	86.1
	2011	611	38.5	0.4	39.9	1.3	0.0	12.6	2.9	4.3	0.0	80.1	79.2	81.0
Czech Republic	2007	591	32.4	4.9	27.5	0.4	1.5	4.5	12.4	15.4	1.2	66.6	62.3	71.0
	2011	651	35.0	14.8	24.8	1.2	0.4	1.7	10.9	10.9	0.3	76.2	73.3	79.3
Denmark	2007	506	41.6	1.8	33.2	0.3	0.2	2.7	10.1	8.1	2.1	77.1	77.1	77.1
	2011	578	41.9	2.6	35.8	0.8	0.2	1.8	12.5	3.4	1.0	81.2	80.9	81.6
England	2007	631	38.7	2.5	43.7	1.5	0.0	5.1	5.7	2.4	0.4	86.4	86.8	86.1
	2011	485	31.7	4.9	39.1	2.0	6.7	5.3	7.3	2.5	0.6	84.3	89.6	79.7
Georgia	2007	588	23.3	2.1	16.6	0.1	1.3	2.1	14.3	35.8	4.5	43.3	43.2	43.5
	2011	680	28.9	3.0	25.1	0.5	0.4	1.1	22.4	17.7	1.0	57.9	58.0	57.7
Germany	2007	734	39.2	5.7	28.7	1.5	0.0	7.5	7.5	8.4	1.5	75.0	71.7	78.3
	2011	565	36.3	4.8	36.0	1.5	0.0	4.0	9.2	7.2	1.0	78.6	76.0	81.1
Hong Kong SAR	2007	540	39.6	8.6	38.5	0.3	0.4	4.0	6.1	2.3	0.3	87.4	87.9	86.9
	2011	555	39.4	0.5	39.0	0.0	0.4	11.8	6.0	2.9	0.0	79.2	79.0	79.4
Hungary	2007	587	30.6	5.4	42.3	2.6	0.3	1.9	6.8	7.2	3.0	81.1	79.1	83.3
	2011	741	36.9	4.8	32.3	2.6	0.0	4.9	11.6	6.0	0.8	76.6	77.9	75.2
Iran, Islamic Rep. of	2007	536	29.2	2.2	20.8	1.3	1.0	0.9	25.3	14.2	5.1	54.5	56.4	52.5
	2011	822	31.5	1.8	27.8	0.6	0.4	4.1	20.4	11.7	1.7	62.1	62.6	61.7
Italy	2007	641	45.7	1.4	28.9	0.7	0.0	1.8	8.6	11.0	1.9	76.7	75.6	77.9
	2011	597	46.5	1.6	30.2	1.0	2.8	3.1	7.3	6.8	0.7	82.1	80.3	84.2
Japan	2007	639	10.4	0.2	73.3	0.2	0.3	0.2	13.7	1.5	0.2	84.4	84.3	84.4
	2011	626	12.1	0.5	70.3	0.0	0.2	4.7	11.6	0.7	0.0	83.0	80.8	85.1
Kuwait	2007	525	17.9	0.1	27.5	0.3	2.1	0.4	19.3	27.0	5.4	47.9	57.1	37.4
	2011	580	17.5	0.8	28.0	0.2	1.0	1.2	31.5	18.4	1.4	47.6	55.5	38.7
Lithuania	2007	572	32.4	1.1	44.2	0.0	0.0	3.8	7.0	10.4	1.2	77.6	78.0	77.2
	2011	670	36.0	1.3	42.6	0.6	0.3	0.3	11.9	7.0	0.2	80.7	87.4	74.5
Netherlands	2007	480	32.1	3.5	47.5	0.1	0.3	4.7	10.7	1.2	0.0	83.5	83.1	83.8
	2011	459	34.7	2.5	43.7	0.0	0.0	7.2	10.5	0.9	0.5	80.9	79.1	82.6
New Zealand	2007	718	26.4	4.3	38.0	1.7	7.8	5.3	9.8	6.0	0.6	78.3	82.2	74.3
	2011	786	27.8	4.0	35.6	2.3	5.6	6.5	15.1	2.7	0.3	75.3	78.8	72.2
Norway	2007	591	35.6	1.8	30.2	0.2	0.0	3.3	14.7	10.0	4.3	67.8	63.0	73.3
	2011	463	31.8	2.0	36.0	2.4	0.0	5.3	14.0	7.8	0.7	72.3	67.5	77.6
Russian Federation	2007	644	34.8	1.1	37.4	1.3	0.2	0.7	15.2	7.8	1.6	74.7	76.0	73.4
	2011	630	44.4	1.5	29.7	0.3	0.3	6.0	11.2	6.6	0.1	76.1	75.6	76.6
Singapore	2007	714	31.1	2.2	42.3	0.4	13.0	4.2	6.5	0.4	0.0	88.9	90.5	87.4
	2011	906	34.7	2.0	38.4	0.2	9.1	7.5	6.7	1.4	0.0	84.4	85.7	83.0
Slovak Republic	2007	715	30.9	9.0	37.5	0.2	0.2	1.5	8.8	11.1	0.7	77.9	82.0	73.8
	2011	817	35.4	7.9	30.1	0.6	8.8	1.7	8.1	7.3	0.1	82.8	84.8	80.7
Slovenia	2007	625	36.3	2.4	34.3	0.2	0.5	2.5	14.5	7.1	2.1	73.7	72.9	74.4
	2011	642	44.3	3.4	32.1	0.3	0.1	0.6	10.1	8.1	1.1	80.1	81.1	79.3

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

S01_07A (S031197A): Physical Science / Knowing
Label: Two uses of electricity - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	34.8	2.4	41.9	0.0	0.1	5.9	4.8	8.1	2.0	79.2	81.8	76.4
	2011	666	35.1	1.4	48.0	0.3	0.3	1.5	6.3	6.8	0.2	85.2	86.4	84.0
Tunisia	2007	594	18.9	1.6	17.4	0.5	0.1	0.6	29.7	22.7	8.5	38.5	44.8	32.6
	2011	698	20.7	2.3	18.8	0.9	1.7	1.5	28.9	20.2	5.2	44.3	47.0	41.5
United States	2007	1128	46.7	2.6	29.7	1.6	0.3	8.7	7.1	2.2	1.0	81.0	82.2	79.8
	2011	1790	45.2	3.5	33.7	0.3	0.2	4.7	10.8	1.1	0.5	83.0	83.6	82.3
International Avg. (25)	2007	15826	32.4	3.4	35.7	0.7	1.4	3.6	11.3	9.5	2.0	73.6	73.9	73.2
	2011	17572	34.1	3.4	35.7	0.9	1.6	4.2	12.3	7.0	0.7	75.8	76.4	75.2
Alberta, Canada	2007	564	44.9	4.7	27.2	3.2	4.9	3.2	8.1	3.1	0.7	84.9	84.6	85.3
	2011	526	43.1	4.8	33.0	2.8	0.7	6.6	6.6	2.0	0.5	84.3	88.0	80.3
Ontario, Canada	2007	503	42.3	3.0	31.4	2.1	4.1	2.4	10.4	1.2	3.2	82.9	82.2	83.5
	2011	654	39.5	1.3	37.3	3.2	0.9	6.2	7.1	2.4	2.0	82.2	81.9	82.5
Quebec, Canada	2007	578	40.9	5.0	24.0	0.7	8.6	2.9	10.8	6.6	0.5	79.2	75.3	84.0
	2011	597	41.4	7.1	27.7	1.2	3.4	12.8	4.8	1.4	0.2	80.8	79.2	82.6
Dubai, UAE	2007	434	30.2	0.7	28.4	1.2	1.0	5.4	15.5	17.0	0.7	61.4	61.4	61.4
	2011	887	35.7	2.7	32.1	0.6	0.1	2.5	18.2	7.6	0.5	71.2	75.2	67.6

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

S01_07B (S031197B): Physical Science / Knowing
Label: Two uses of electricity - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	14.5	5.5	53.0	2.9	1.0	5.0	12.4	3.3	2.4	76.9	78.9	74.7
	2011	880	14.3	6.0	50.2	3.3	0.2	4.8	15.8	5.0	0.3	74.0	76.5	71.6
Austria	2007	691	12.1	12.5	44.5	0.5	0.2	4.2	11.1	14.7	0.2	69.8	63.7	74.6
	2011	674	13.6	10.8	44.6	0.8	0.9	4.2	13.0	12.0	0.1	70.7	66.8	74.5
Chinese Taipei	2007	594	10.6	1.7	56.0	3.9	2.7	9.8	8.8	6.6	0.0	74.9	74.1	75.6
	2011	611	12.8	1.1	57.7	3.9	0.2	12.3	5.5	6.6	0.0	75.7	77.8	73.8
Czech Republic	2007	591	11.8	10.2	30.5	1.6	2.4	4.4	14.9	22.9	1.2	56.5	56.8	56.3
	2011	651	13.8	11.8	36.9	1.7	1.7	1.6	14.7	17.4	0.3	65.9	62.0	70.0
Denmark	2007	506	12.9	7.4	47.4	0.5	0.3	4.9	14.2	10.1	2.1	68.6	71.7	65.1
	2011	578	11.2	9.0	53.9	1.6	0.1	3.1	15.6	4.4	1.0	75.9	75.1	76.8
England	2007	631	16.2	5.3	55.2	2.1	0.0	7.2	10.2	3.3	0.4	78.8	80.7	77.1
	2011	485	15.1	8.3	49.9	2.0	5.2	6.8	9.6	2.6	0.6	80.5	84.8	76.7
Georgia	2007	588	6.9	4.1	24.0	1.0	0.8	1.5	16.7	40.5	4.5	36.8	34.9	38.7
	2011	680	10.1	7.8	27.8	0.3	1.1	0.9	27.0	24.0	1.0	47.1	46.4	47.8
Germany	2007	734	17.5	8.1	43.3	1.1	0.1	7.7	9.1	11.6	1.5	70.1	66.4	73.6
	2011	565	12.3	6.1	47.7	2.1	0.0	8.0	13.1	9.7	1.0	68.2	64.5	71.9
Hong Kong SAR	2007	540	11.0	9.3	53.3	0.6	0.4	5.6	13.4	6.0	0.3	74.7	77.6	71.7
	2011	555	11.6	0.9	51.6	0.5	1.9	20.5	9.3	3.7	0.0	66.5	66.4	66.5
Hungary	2007	587	9.0	3.8	58.2	2.9	0.2	3.2	10.8	8.9	3.0	74.2	73.0	75.4
	2011	741	9.7	9.9	46.8	2.3	0.5	5.2	15.7	9.0	0.8	69.3	71.9	66.3
Iran, Islamic Rep. of	2007	536	11.5	7.4	28.4	2.1	0.6	0.9	24.2	19.8	5.1	50.0	53.8	46.1
	2011	822	12.3	5.8	35.4	0.5	0.5	4.0	24.8	15.1	1.7	54.4	53.8	55.0
Italy	2007	641	13.4	4.9	46.4	1.1	0.3	2.4	15.6	14.1	1.9	66.0	65.9	66.2
	2011	597	13.6	4.4	46.0	1.8	3.1	4.9	15.2	10.2	0.7	68.9	65.3	72.9
Japan	2007	639	9.4	0.6	72.1	0.0	0.0	0.2	14.7	2.8	0.2	82.0	83.8	80.2
	2011	626	8.2	0.4	68.3	0.3	0.2	7.5	14.0	1.2	0.0	77.3	76.6	78.1
Kuwait	2007	525	7.8	0.4	33.1	0.6	1.9	0.0	21.8	28.9	5.4	43.9	52.2	34.3
	2011	580	7.2	1.3	32.3	1.0	0.1	1.0	33.7	21.9	1.4	42.0	50.0	33.0
Lithuania	2007	572	12.5	2.4	53.2	0.2	1.3	3.5	12.1	13.6	1.2	69.6	68.0	71.3
	2011	670	12.5	2.0	56.4	0.4	0.0	1.3	17.4	9.8	0.2	71.3	74.3	68.6
Netherlands	2007	480	20.7	4.9	51.4	0.8	0.7	5.9	13.8	1.8	0.0	78.5	75.1	81.7
	2011	459	14.8	4.8	56.0	0.2	1.5	8.2	12.5	1.6	0.5	77.3	77.0	77.5
New Zealand	2007	718	14.0	6.2	43.4	2.7	5.9	6.2	14.9	6.1	0.6	72.2	75.4	69.0
	2011	786	14.6	6.0	45.3	2.0	5.1	5.4	18.1	3.1	0.3	73.0	74.8	71.4
Norway	2007	591	10.3	7.1	40.9	0.7	0.0	7.0	16.6	13.1	4.3	59.0	56.6	61.9
	2011	463	10.1	6.3	49.0	2.6	0.2	8.1	14.2	9.0	0.7	68.1	59.5	77.5
Russian Federation	2007	644	12.9	3.0	46.7	3.2	1.8	1.3	17.0	12.5	1.6	67.6	70.7	64.6
	2011	630	12.6	4.2	41.9	1.7	1.6	9.0	18.9	10.0	0.1	61.9	64.5	59.5
Singapore	2007	714	13.2	2.8	55.9	0.4	13.7	3.6	9.6	0.7	0.0	86.1	86.1	86.1
	2011	906	14.4	3.6	52.9	1.1	7.3	6.1	12.4	2.3	0.0	79.2	78.6	79.8
Slovak Republic	2007	715	11.2	12.6	41.0	3.0	1.4	2.1	14.2	13.9	0.7	69.2	73.8	64.5
	2011	817	9.0	11.5	39.4	1.7	11.1	3.1	14.6	9.4	0.1	72.7	73.6	71.9
Slovenia	2007	625	13.0	5.8	41.9	0.5	1.3	2.9	21.6	10.7	2.1	62.6	62.9	62.3
	2011	642	12.2	4.8	54.4	1.3	0.4	2.1	14.6	9.1	1.1	73.1	72.1	74.0

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

S01_07B (S031197B): Physical Science / Knowing
Label: Two uses of electricity - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	16.7	6.4	47.8	0.9	0.1	6.2	10.7	9.3	2.0	71.8	76.8	66.4
	2011	666	12.4	3.6	63.1	1.8	0.3	1.5	9.0	8.2	0.2	81.1	81.6	80.6
Tunisia	2007	594	5.1	2.7	17.5	0.8	0.0	0.0	38.3	27.2	8.5	26.0	29.6	22.6
	2011	698	8.5	3.4	19.6	0.9	1.3	1.4	37.2	22.5	5.2	33.7	35.0	32.4
United States	2007	1128	14.8	6.4	47.5	3.8	1.1	10.5	12.2	2.7	1.0	73.5	72.3	74.7
	2011	1790	14.6	6.7	52.8	0.6	0.5	7.6	15.1	1.6	0.5	75.3	77.3	73.2
International Avg. (25)	2007	15826	12.4	5.7	45.3	1.5	1.5	4.3	15.2	12.2	2.0	66.4	67.2	65.4
	2011	17572	12.1	5.6	47.2	1.5	1.8	5.6	16.4	9.2	0.7	68.1	68.2	68.1
Alberta, Canada	2007	564	14.3	7.9	45.0	3.3	6.0	4.8	14.3	3.7	0.7	76.5	77.5	75.5
	2011	526	11.8	4.9	51.1	5.1	1.9	8.8	12.4	3.6	0.5	74.8	77.3	72.1
Ontario, Canada	2007	503	16.7	5.8	43.5	2.9	7.0	1.6	16.8	2.5	3.2	75.9	71.4	80.1
	2011	654	13.0	2.7	52.8	4.3	1.3	8.0	12.7	3.1	2.0	74.2	71.9	76.2
Quebec, Canada	2007	578	17.0	7.0	35.5	1.2	4.5	3.8	21.8	8.8	0.5	65.2	65.5	64.7
	2011	597	19.9	5.8	36.1	2.3	3.5	13.6	15.9	2.7	0.2	67.6	64.4	71.3
Dubai, UAE	2007	434	8.1	3.2	40.8	2.6	1.0	5.3	20.1	18.1	0.7	55.8	57.7	54.0
	2011	887	12.8	3.3	44.9	1.5	0.2	3.2	24.6	8.9	0.5	62.8	69.5	56.7

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

S01_07Z (S031197Z): Physical Science / Knowing
Label: Two uses of electricity-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	71.4	14.7	9.0	0.0	2.5	2.4	86.1	71.4	73.2	69.4
	2011	880	71.3	14.5	0.0	10.0	3.9	0.3	85.8	71.3	74.1	68.5
Austria	2007	691	65.5	13.6	9.1	0.0	11.6	0.2	79.0	65.5	58.6	70.9
	2011	674	66.0	15.9	0.0	8.6	9.4	0.1	81.8	66.0	62.9	68.9
Chinese Taipei	2007	594	69.0	20.0	7.7	0.0	3.3	0.0	89.0	69.0	66.5	71.2
	2011	611	65.9	24.0	0.0	5.7	4.3	0.0	89.9	65.9	67.4	64.6
Czech Republic	2007	591	51.2	20.7	11.5	0.0	15.4	1.2	71.9	51.2	48.7	53.8
	2011	651	62.9	16.3	0.0	9.6	10.9	0.3	79.2	62.9	58.7	67.4
Denmark	2007	506	64.1	17.5	8.3	0.0	8.0	2.1	81.6	64.1	66.8	61.1
	2011	578	69.9	17.4	0.0	8.3	3.4	1.0	87.3	69.9	68.7	71.1
England	2007	631	75.0	15.1	7.0	0.0	2.4	0.4	90.2	75.0	75.3	74.8
	2011	485	75.1	14.5	0.0	7.6	2.1	0.6	89.7	75.1	79.7	71.2
Georgia	2007	588	33.5	13.2	13.2	0.0	35.7	4.5	46.7	33.5	31.5	35.3
	2011	680	38.5	27.9	0.0	17.0	15.5	1.0	66.5	38.5	39.2	37.8
Germany	2007	734	62.3	20.6	7.4	0.0	8.3	1.5	82.8	62.3	58.4	66.0
	2011	565	63.4	20.0	0.0	8.4	7.2	1.0	83.4	63.4	58.7	68.0
Hong Kong SAR	2007	540	70.0	22.0	5.3	0.0	2.3	0.3	92.1	70.0	72.3	67.7
	2011	555	57.8	30.0	0.0	9.4	2.7	0.0	87.9	57.8	57.7	57.9
Hungary	2007	587	71.8	11.6	6.7	0.0	6.9	3.0	83.5	71.8	70.0	73.7
	2011	741	63.8	18.4	0.0	12.2	4.8	0.8	82.2	63.8	64.9	62.4
Iran, Islamic Rep. of	2007	536	44.2	16.1	20.5	0.0	14.0	5.1	60.3	44.2	46.0	42.4
	2011	822	50.3	15.9	0.0	20.8	11.3	1.7	66.2	50.3	50.2	50.5
Italy	2007	641	60.9	20.9	5.7	0.0	10.6	1.9	81.8	60.9	58.1	63.8
	2011	597	64.4	22.2	0.0	6.6	6.1	0.7	86.6	64.4	60.1	69.3
Japan	2007	639	73.9	18.5	5.8	0.0	1.5	0.2	92.5	73.9	75.8	72.0
	2011	626	70.5	19.3	0.0	9.5	0.7	0.0	89.8	70.5	69.3	71.7
Kuwait	2007	525	39.6	12.6	18.0	0.0	24.3	5.4	52.2	39.6	48.0	29.9
	2011	580	37.3	15.0	0.0	31.3	15.0	1.4	52.3	37.3	45.6	28.1
Lithuania	2007	572	66.3	14.7	7.5	0.0	10.4	1.2	81.0	66.3	64.7	67.9
	2011	670	68.7	14.6	0.0	9.9	6.7	0.2	83.3	68.7	71.6	66.1
Netherlands	2007	480	70.5	20.9	7.6	0.0	1.0	0.0	91.4	70.5	67.4	73.5
	2011	459	67.0	24.2	0.0	7.4	0.9	0.5	91.2	67.0	65.2	68.6
New Zealand	2007	718	68.3	13.9	12.1	0.0	5.1	0.6	82.2	68.3	71.8	64.7
	2011	786	64.7	19.0	0.0	13.5	2.5	0.3	83.7	64.7	68.1	61.6
Norway	2007	591	52.5	21.9	11.4	0.0	10.0	4.3	74.4	52.5	50.2	55.0
	2011	463	61.4	17.5	0.0	12.8	7.6	0.7	78.9	61.4	54.3	69.3
Russian Federation	2007	644	65.2	11.8	13.6	0.0	7.8	1.6	77.0	65.2	68.3	62.3
	2011	630	56.0	26.1	0.0	11.2	6.6	0.1	82.1	56.0	57.1	54.9
Singapore	2007	714	81.3	12.4	5.9	0.0	0.4	0.0	93.7	81.3	81.8	80.9
	2011	906	73.5	16.5	0.0	8.6	1.4	0.0	90.0	73.5	73.2	73.8
Slovak Republic	2007	715	66.3	14.6	7.7	0.0	10.8	0.7	80.8	66.3	70.5	62.0
	2011	817	70.0	15.5	0.0	7.6	6.7	0.1	85.5	70.0	71.6	68.4
Slovenia	2007	625	59.9	16.5	14.7	0.0	6.7	2.1	76.4	59.9	60.4	59.5
	2011	642	70.0	13.2	0.0	8.5	7.2	1.1	83.2	70.0	69.8	70.2

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

S01_07Z (S031197Z): Physical Science / Knowing
Label: Two uses of electricity-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	67.0	16.9	6.3	0.0	7.7	2.0	84.0	67.0	71.7	62.1
	2011	666	77.1	12.1	0.0	3.8	6.8	0.2	89.2	77.1	77.1	77.0
Tunisia	2007	594	22.3	20.0	27.1	0.0	22.1	8.5	42.2	22.3	25.7	19.1
	2011	698	29.5	19.0	0.0	27.8	18.5	5.2	48.5	29.5	29.8	29.2
United States	2007	1128	67.2	20.1	9.4	0.0	2.2	1.0	87.4	67.2	67.0	67.4
	2011	1790	68.0	22.3	0.0	8.2	1.1	0.5	90.2	68.0	69.7	66.2
International Avg. (25)	2007	15826	61.6	16.8	10.3	0.0	9.2	2.0	78.4	61.6	61.9	61.1
	2011	17572	62.5	18.9	0.0	11.4	6.5	0.7	81.4	62.5	62.6	62.5
Alberta, Canada	2007	564	70.1	21.3	4.9	0.0	3.1	0.7	91.3	70.1	70.2	70.0
	2011	526	68.8	21.5	0.0	7.2	2.0	0.5	90.3	68.8	72.6	64.6
Ontario, Canada	2007	503	70.3	18.2	7.2	0.0	1.2	3.2	88.5	70.3	67.3	73.1
	2011	654	69.7	17.0	0.0	8.8	2.4	2.0	86.7	69.7	67.1	72.0
Quebec, Canada	2007	578	61.1	22.2	9.7	0.0	6.6	0.5	83.3	61.1	60.6	61.6
	2011	597	58.5	31.3	0.0	8.6	1.4	0.2	89.8	58.5	53.5	64.4
Dubai, UAE	2007	434	48.6	19.9	14.2	0.0	16.6	0.7	68.5	48.6	48.5	48.7
	2011	887	56.2	21.6	0.0	14.7	7.1	0.5	77.8	56.2	62.7	50.3

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

S01_08 (S031371): Physical Science / Applying
Label: Heat to change state of water - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	47.2	23.5	8.7	16.8	47.2	1.1	2.6	44.9	49.8
	2011	880	46.5	23.3	7.7	20.2	46.5	1.6	0.7	44.0	48.8
Austria	2007	691	67.6	16.4	7.0	6.0	67.6	2.4	0.6	71.6	64.4
	2011	674	67.9	14.7	6.1	8.7	67.9	2.2	0.5	76.2	60.0
Chinese Taipei	2007	594	39.1	10.8	13.2	35.5	39.1	1.1	0.3	37.5	40.6
	2011	611	43.6	9.0	11.4	35.5	43.6	0.5	0.0	41.9	45.1
Czech Republic	2007	591	31.7	23.5	22.0	17.7	31.7	3.6	1.5	27.2	36.1
	2011	651	34.9	26.1	21.3	14.6	34.9	2.7	0.4	35.1	34.6
Denmark	2007	501	30.3	28.2	15.1	19.2	30.3	5.0	2.3	34.6	25.6
	2011	578	39.1	21.4	12.6	18.6	39.1	7.1	1.2	44.9	33.0
England	2007	631	57.0	18.8	9.4	12.7	57.0	1.8	0.4	61.6	52.8
	2011	485	53.3	22.4	7.9	15.1	53.3	0.7	0.6	55.8	51.1
Georgia	2007	588	28.0	36.6	16.0	8.7	28.0	4.7	6.0	29.7	26.3
	2011	680	27.3	27.0	18.6	20.7	27.3	4.1	2.3	26.5	28.1
Germany	2007	734	72.3	13.2	4.8	5.5	72.3	2.0	2.1	72.0	72.7
	2011	565	73.4	13.0	4.1	5.3	73.4	2.9	1.3	77.6	69.3
Hong Kong SAR	2007	540	48.6	17.5	14.8	17.9	48.6	0.9	0.3	48.4	48.8
	2011	555	49.6	16.6	13.1	19.8	49.6	0.6	0.3	47.0	51.8
Hungary	2007	587	54.1	16.8	11.2	11.5	54.1	2.8	3.5	52.3	56.1
	2011	741	51.0	17.7	11.3	17.5	51.0	1.7	0.9	50.6	51.3
Iran, Islamic Rep. of	2007	536	34.9	14.9	22.8	16.9	34.9	4.3	6.1	37.8	32.0
	2011	822	42.5	14.5	20.6	17.6	42.5	2.7	2.2	46.9	38.1
Italy	2007	636	51.3	18.3	8.8	12.7	51.3	5.7	3.2	50.3	52.4
	2011	597	50.0	20.3	12.2	13.6	50.0	2.8	1.2	52.7	46.9
Japan	2007	639	44.1	29.0	12.6	12.7	44.1	0.9	0.7	46.3	41.8
	2011	626	44.1	30.1	11.4	13.7	44.1	0.7	0.0	48.7	39.7
Kuwait	2007	525	38.0	8.6	12.1	27.7	38.0	5.5	8.1	44.4	30.6
	2011	574	35.5	16.2	16.7	22.4	35.5	7.0	2.1	40.8	29.5
Lithuania	2007	572	56.8	24.2	7.1	8.9	56.8	1.6	1.3	57.8	55.8
	2011	670	59.3	21.3	12.7	4.8	59.3	1.7	0.2	67.8	51.5
Netherlands	2007	480	34.1	53.2	8.9	3.6	34.1	0.0	0.1	40.4	28.2
	2011	459	33.0	55.4	6.1	3.8	33.0	0.9	0.9	35.3	30.1
New Zealand	2007	718	46.6	22.3	9.8	17.9	46.6	1.8	1.5	44.5	48.8
	2011	786	46.9	24.1	9.2	18.1	46.9	1.4	0.3	50.6	43.5
Norway	2007	591	45.4	23.3	12.9	10.4	45.4	2.4	5.6	47.2	43.3
	2011	463	54.3	21.6	6.6	13.7	54.3	2.8	1.0	55.0	53.5
Russian Federation	2007	644	65.9	16.7	4.9	9.7	65.9	0.7	2.2	67.4	64.4
	2011	630	65.7	16.4	7.8	9.3	65.7	0.5	0.3	67.6	63.8
Singapore	2007	714	68.5	17.6	4.5	9.0	68.5	0.3	0.0	68.9	68.1
	2011	906	65.9	18.0	2.4	12.7	65.9	0.8	0.1	67.1	64.8
Slovak Republic	2007	715	42.8	16.2	18.9	17.6	42.8	3.4	1.1	42.5	43.1
	2011	817	43.2	17.2	16.0	21.1	43.2	2.2	0.3	44.0	42.4
Slovenia	2007	625	65.5	8.2	8.4	13.0	65.5	2.1	2.7	67.3	63.9
	2011	641	66.5	10.1	9.5	10.6	66.5	1.5	1.7	67.0	66.2

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

S01_08 (S031371): Physical Science / Applying
Label: Heat to change state of water - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	661	51.9	21.0	8.7	8.5	51.9	7.1	2.7	56.2	47.4
	2011	666	57.3	17.9	8.3	10.0	57.3	5.9	0.6	55.7	58.9
Tunisia	2007	594	32.8	13.0	9.1	18.1	32.8	17.9	9.1	35.4	30.4
	2011	688	40.5	15.6	11.0	20.6	40.5	5.6	6.6	42.8	38.2
United States	2007	1128	59.8	16.7	7.3	12.2	59.8	2.7	1.2	61.5	58.1
	2011	1790	60.6	17.5	6.2	14.3	60.6	0.6	0.8	60.3	61.0
International Avg. (25)	2007	15815	48.6	20.3	11.2	14.0	48.6	3.3	2.6	49.9	47.3
	2011	17555	50.1	20.3	10.8	15.3	50.1	2.4	1.1	52.1	48.1
Alberta, Canada	2007	564	52.2	22.9	7.6	14.5	52.2	0.8	2.0	51.5	52.9
	2011	527	58.6	17.6	7.9	14.1	58.6	0.8	1.0	59.5	57.7
Ontario, Canada	2007	503	53.8	17.3	7.5	15.9	53.8	1.8	3.6	57.7	50.2
	2011	654	54.0	18.5	8.6	14.5	54.0	1.5	2.9	52.0	55.8
Quebec, Canada	2007	578	30.0	13.1	10.4	30.5	30.0	13.5	2.6	27.5	33.1
	2011	597	36.6	12.3	14.1	30.4	36.6	6.1	0.5	37.3	35.8
Dubai, UAE	2007	434	45.4	20.7	9.9	17.6	45.4	3.2	3.4	44.8	45.9
	2011	887	46.3	22.8	11.8	17.6	46.3	0.8	0.6	44.7	47.7

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

S01_09 (S031376): Earth Science / Knowing

Label: Best soil for plants to grow in - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	40.5	26.4	6.1	22.0	40.5	2.1	2.8	42.7	38.0
	2011	880	38.6	28.3	5.5	24.1	38.6	2.8	0.8	36.0	41.1
Austria	2007	691	31.8	38.0	8.2	17.9	31.8	3.4	0.8	28.5	34.3
	2011	674	30.6	40.3	5.1	19.6	30.6	4.0	0.5	29.9	31.2
Chinese Taipei	2007	594	57.4	21.1	5.0	15.4	57.4	0.8	0.3	55.7	59.0
	2011	611	56.9	25.0	4.5	13.1	56.9	0.5	0.0	56.0	57.8
Czech Republic	2007	591	73.8	11.8	8.6	2.7	73.8	1.6	1.5	76.0	71.6
	2011	651	72.8	10.0	9.6	5.3	72.8	1.6	0.6	75.3	70.2
Denmark	2007	505	51.4	17.6	15.9	9.6	51.4	2.9	2.7	51.4	51.3
	2011	578	52.8	15.5	17.3	8.7	52.8	4.1	1.5	53.4	52.1
England	2007	631	46.6	18.6	8.8	22.7	46.6	3.0	0.4	42.1	50.6
	2011	485	45.5	20.1	8.6	23.6	45.5	1.6	0.6	44.2	46.7
Georgia	2007	588	31.1	38.2	8.9	11.0	31.1	4.1	6.7	28.8	33.3
	2011	680	23.6	47.0	10.1	13.7	23.6	3.1	2.5	24.0	23.2
Germany	2007	734	30.1	36.0	9.7	19.5	30.1	2.3	2.5	28.3	31.9
	2011	565	27.9	36.0	14.2	17.5	27.9	3.1	1.3	26.1	29.6
Hong Kong SAR	2007	540	50.5	22.5	20.3	5.7	50.5	0.8	0.3	50.2	50.8
	2011	555	46.2	29.1	17.5	6.5	46.2	0.5	0.3	45.1	47.2
Hungary	2007	587	43.1	29.0	16.8	4.9	43.1	2.3	3.8	43.5	42.7
	2011	741	54.3	28.1	11.6	3.9	54.3	1.1	1.0	54.3	54.2
Iran, Islamic Rep. of	2007	536	12.5	18.6	39.9	18.7	12.5	4.2	6.1	11.4	13.5
	2011	822	14.5	16.3	40.9	22.8	14.5	3.2	2.3	12.2	16.7
Italy	2007	639	53.7	12.2	14.1	14.3	53.7	2.2	3.5	51.3	56.1
	2011	597	57.6	11.2	15.5	13.2	57.6	1.3	1.2	57.7	57.5
Japan	2007	639	29.1	34.8	8.4	26.1	29.1	0.9	0.7	30.1	28.0
	2011	626	29.5	38.4	7.0	24.8	29.5	0.2	0.1	27.3	31.6
Kuwait	2007	525	11.8	37.1	20.2	17.6	11.8	4.6	8.6	12.1	11.4
	2011	573	15.8	33.3	25.6	15.0	15.8	8.1	2.1	13.8	18.1
Lithuania	2007	572	21.3	37.5	22.2	15.2	21.3	2.3	1.6	21.6	21.0
	2011	670	27.6	29.1	28.3	12.8	27.6	2.0	0.2	26.7	28.5
Netherlands	2007	480	20.0	39.5	23.6	16.1	20.0	0.6	0.1	18.0	21.8
	2011	459	19.8	28.1	29.2	20.9	19.8	1.1	0.9	14.8	25.1
New Zealand	2007	718	41.8	25.6	7.8	21.9	41.8	1.3	1.7	42.6	40.9
	2011	786	46.1	22.6	11.5	18.0	46.1	1.4	0.3	45.5	46.7
Norway	2007	591	36.4	34.7	15.3	5.2	36.4	2.7	5.6	34.9	38.3
	2011	463	40.0	32.0	19.6	3.9	40.0	3.4	1.0	40.9	39.0
Russian Federation	2007	644	59.9	10.1	6.8	19.8	59.9	1.1	2.2	55.4	64.2
	2011	630	59.6	9.3	10.1	19.3	59.6	1.5	0.3	59.4	59.7
Singapore	2007	714	22.4	30.8	7.1	39.4	22.4	0.3	0.0	19.0	25.7
	2011	906	20.2	30.7	6.9	40.7	20.2	1.3	0.1	20.7	19.8
Slovak Republic	2007	715	64.3	10.8	17.9	3.9	64.3	2.0	1.1	66.1	62.4
	2011	817	60.2	9.3	25.4	3.6	60.2	1.2	0.3	61.2	59.2
Slovenia	2007	625	40.5	28.4	12.9	12.8	40.5	2.6	2.9	37.8	42.8
	2011	642	45.7	23.8	13.4	13.2	45.7	2.2	1.8	41.8	49.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S01_09 (S031376): Earth Science / Knowing
Label: Best soil for plants to grow in - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	58.8	13.8	18.4	5.2	58.8	0.8	2.9	61.1	56.4
	2011	666	56.3	8.4	28.5	3.5	56.3	2.5	0.9	54.3	58.2
Tunisia	2007	594	17.8	24.3	16.0	15.6	17.8	17.1	9.2	17.5	18.1
	2011	689	25.2	26.2	15.9	19.2	25.2	6.3	7.3	28.3	22.0
United States	2007	1128	48.1	18.5	5.7	23.1	48.1	3.1	1.5	46.5	49.7
	2011	1790	48.4	20.9	6.5	20.8	48.4	2.4	1.0	49.1	47.7
International Avg. (25)	2007	15823	39.8	25.4	13.8	15.4	39.8	2.8	2.8	38.9	40.6
	2011	17556	40.6	24.8	15.5	15.5	40.6	2.4	1.2	39.9	41.3
Alberta, Canada	2007	564	63.0	16.3	5.5	11.5	63.0	1.7	2.0	63.9	62.1
	2011	527	63.6	17.5	5.8	10.7	63.6	1.4	1.1	63.1	64.2
Ontario, Canada	2007	503	51.1	21.6	8.5	13.3	51.1	1.7	3.8	49.4	52.7
	2011	654	55.1	18.0	7.7	13.5	55.1	2.6	3.1	55.9	54.3
Quebec, Canada	2007	578	42.7	21.6	13.8	15.7	42.7	3.5	2.7	39.4	46.8
	2011	597	51.5	20.8	8.6	17.7	51.5	0.9	0.5	51.7	51.4
Dubai, UAE	2007	434	36.1	29.9	10.4	17.9	36.1	2.3	3.4	36.2	36.0
	2011	887	31.3	33.7	10.9	20.8	31.3	2.5	0.8	31.5	31.2

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

S01_10 (S031044): Earth Science / Reasoning
Label: Label Earth, Moon, and Sun - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	49.2	11.5	34.5	2.0	2.9	49.2	39.2	60.2
	2011	880	54.0	13.0	29.6	2.5	0.9	54.0	48.3	59.5
Austria	2007	691	45.6	9.5	40.7	3.0	1.1	45.6	35.7	53.3
	2011	674	52.5	13.9	30.1	3.0	0.5	52.5	45.1	59.6
Chinese Taipei	2007	594	51.2	8.8	38.1	1.7	0.3	51.2	45.6	56.1
	2011	611	51.9	10.0	37.7	0.5	0.0	51.9	45.3	57.9
Czech Republic	2007	585	44.9	11.3	36.2	5.5	2.1	44.9	41.4	48.4
	2011	651	52.4	13.7	30.8	2.5	0.6	52.4	49.4	55.7
Denmark	2007	504	44.6	20.9	25.9	5.8	2.8	44.6	37.1	52.9
	2011	578	52.3	9.0	31.8	5.3	1.7	52.3	48.1	56.7
England	2007	631	65.1	10.1	22.5	2.0	0.4	65.1	59.9	69.7
	2011	485	63.0	10.6	24.9	0.9	0.6	63.0	60.1	65.6
Georgia	2007	588	22.6	4.8	44.0	20.5	8.2	22.6	23.0	22.2
	2011	673	39.9	10.8	40.1	6.5	2.7	39.9	38.8	41.1
Germany	2007	734	45.7	9.5	39.4	2.8	2.6	45.7	39.9	51.3
	2011	565	44.3	14.5	37.7	2.1	1.5	44.3	38.7	49.7
Hong Kong SAR	2007	540	65.1	10.2	24.1	0.2	0.5	65.1	54.8	75.7
	2011	555	57.7	11.1	30.7	0.2	0.3	57.7	46.6	67.3
Hungary	2007	587	45.1	11.8	36.9	1.7	4.5	45.1	41.1	49.3
	2011	740	50.6	15.4	31.4	1.5	1.2	50.6	42.8	59.4
Iran, Islamic Rep. of	2007	536	28.6	14.5	41.2	8.1	7.6	28.6	28.8	28.5
	2011	822	42.0	21.6	29.8	3.9	2.6	42.0	42.4	41.6
Italy	2007	639	43.8	9.5	37.5	5.4	3.8	43.8	41.5	46.0
	2011	597	43.9	12.3	40.2	2.2	1.4	43.9	36.2	52.7
Japan	2007	639	52.5	11.6	34.8	0.3	0.8	52.5	43.6	61.7
	2011	626	53.0	13.9	32.3	0.6	0.1	53.0	43.5	62.4
Kuwait	2007	525	32.7	8.4	39.2	10.4	9.3	32.7	33.4	32.0
	2011	579	51.0	12.7	29.5	3.8	3.0	51.0	53.3	48.5
Lithuania	2007	572	52.3	14.4	29.6	1.8	1.9	52.3	47.9	56.7
	2011	670	53.6	15.9	28.6	1.8	0.2	53.6	56.4	51.0
Netherlands	2007	480	36.9	12.7	49.5	0.5	0.4	36.9	35.6	38.1
	2011	459	49.0	19.0	30.9	0.0	1.1	49.0	42.3	55.6
New Zealand	2007	718	43.6	12.2	40.1	2.5	1.7	43.6	36.6	50.8
	2011	786	43.7	16.7	37.6	1.7	0.3	43.7	38.1	48.7
Norway	2007	591	52.4	10.0	27.2	4.8	5.6	52.4	45.4	60.5
	2011	463	59.7	13.8	22.8	2.6	1.1	59.7	55.3	64.7
Russian Federation	2007	644	65.9	6.5	24.2	0.8	2.5	65.9	61.2	70.4
	2011	630	74.2	8.2	16.8	0.2	0.6	74.2	74.1	74.4
Singapore	2007	714	52.0	15.5	32.5	0.0	0.0	52.0	44.1	59.5
	2011	906	47.6	18.5	33.5	0.2	0.1	47.6	45.5	49.8
Slovak Republic	2007	715	58.0	12.9	23.1	4.9	1.2	58.0	58.3	57.7
	2011	817	66.2	10.5	21.4	1.6	0.3	66.2	64.2	68.2
Slovenia	2007	625	40.9	11.1	41.9	2.7	3.4	40.9	41.5	40.3
	2011	642	47.7	14.5	34.4	1.4	1.9	47.7	46.3	49.0

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

S01_10 (S031044): Earth Science / Reasoning
Label: Label Earth, Moon, and Sun - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	62.5	9.3	22.7	2.6	2.9	62.5	62.2	62.8
	2011	666	63.8	8.2	24.9	2.1	1.1	63.8	60.6	66.9
Tunisia	2007	593	13.2	9.2	59.9	7.7	10.0	13.2	13.8	12.7
	2011	698	17.1	12.6	59.0	3.6	7.7	17.1	16.9	17.4
United States	2007	1128	62.7	8.4	25.2	2.1	1.6	62.7	56.8	68.7
	2011	1790	65.5	10.9	21.5	0.9	1.1	65.5	61.8	69.2

International Avg. (25)	2007	15815	47.1	11.0	34.8	4.0	3.1	47.1	42.7	51.4
	2011	17563	51.9	13.2	31.5	2.1	1.3	51.9	48.0	55.7

Alberta, Canada	2007	564	44.2	8.8	43.3	1.6	2.0	44.2	36.6	52.2
	2011	525	48.4	9.9	39.4	1.3	1.1	48.4	43.6	53.5
Ontario, Canada	2007	503	44.1	8.9	41.1	1.8	4.0	44.1	39.5	48.4
	2011	654	46.2	11.2	36.5	2.1	3.9	46.2	40.0	51.8
Quebec, Canada	2007	578	54.5	10.4	27.2	4.7	3.2	54.5	55.2	53.7
	2011	597	58.7	9.7	29.5	1.3	0.7	58.7	53.6	64.6
Dubai, UAE	2007	434	54.7	11.7	25.9	3.8	3.9	54.7	57.1	52.5
	2011	887	57.6	11.5	27.6	2.3	0.9	57.6	58.6	56.8

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

S01_11A (S031390A): Life Science / Applying
Label: Animal extinction - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	11.0	46.4	4.2	0.3	10.9	18.9	4.3	4.1	61.8	59.1	64.9
	2011	880	12.0	36.5	5.6	0.0	10.5	26.9	6.2	2.4	54.1	51.9	56.2
Austria	2007	691	10.0	34.2	20.2	2.3	9.3	8.3	13.5	2.3	66.7	64.2	68.6
	2011	674	12.8	36.2	19.9	0.5	5.7	13.6	10.4	0.9	69.3	68.4	70.2
Chinese Taipei	2007	594	24.7	35.1	16.0	0.0	6.5	8.8	7.9	1.0	75.8	74.5	76.9
	2011	611	28.8	31.7	16.2	0.0	11.8	5.7	5.8	0.0	76.8	77.4	76.1
Czech Republic	2007	591	4.7	35.4	15.2	1.4	11.4	19.0	9.7	3.2	56.7	54.2	59.3
	2011	651	8.9	35.1	16.0	0.3	10.0	22.9	6.3	0.6	60.2	60.2	60.3
Denmark	2007	506	14.3	35.8	6.5	0.1	11.6	18.3	9.0	4.4	56.7	54.4	59.1
	2011	578	11.0	37.3	11.7	1.4	7.5	23.4	5.0	2.7	61.4	62.6	60.1
England	2007	631	9.2	38.2	9.3	0.0	19.6	13.1	10.1	0.6	56.7	59.1	54.5
	2011	485	14.1	39.4	5.0	0.0	23.1	9.6	8.1	0.7	58.5	59.1	58.1
Georgia	2007	588	12.7	32.5	2.2	0.4	1.2	14.0	22.1	14.8	47.9	49.2	46.5
	2011	673	14.9	36.1	5.9	2.1	1.7	21.4	13.3	4.8	58.9	56.5	61.4
Germany	2007	734	11.5	39.1	18.4	0.0	10.6	9.1	7.5	3.8	69.0	66.6	71.2
	2011	565	13.4	31.1	14.1	0.3	18.2	13.4	7.5	2.0	58.9	58.4	59.3
Hong Kong SAR	2007	540	13.0	54.6	5.9	3.1	7.1	11.3	4.4	0.5	76.7	76.3	77.0
	2011	555	7.8	48.1	3.5	1.7	12.2	21.9	4.5	0.3	61.2	59.7	62.5
Hungary	2007	587	14.2	37.3	20.6	1.1	4.8	12.3	4.7	4.9	73.2	70.8	75.7
	2011	741	16.7	24.2	17.9	0.0	12.1	23.0	4.4	1.7	58.8	58.1	59.6
Iran, Islamic Rep. of	2007	536	4.4	24.7	17.7	1.7	2.9	18.4	20.2	10.0	48.5	47.8	49.3
	2011	822	5.9	26.6	23.0	0.1	6.3	19.0	15.1	4.0	55.7	56.3	55.1
Italy	2007	641	13.1	50.4	10.9	0.4	0.4	12.5	7.9	4.5	74.7	73.9	75.5
	2011	597	16.5	50.2	9.3	0.3	6.0	9.4	6.7	1.6	76.3	74.3	78.5
Japan	2007	639	29.4	16.9	5.8	0.0	29.3	12.8	4.8	1.1	52.0	55.2	48.8
	2011	626	22.2	17.1	5.3	0.0	33.1	17.6	4.5	0.1	44.7	44.8	44.5
Kuwait	2007	525	1.2	14.0	2.8	3.8	0.1	31.9	32.9	13.3	21.8	25.6	17.4
	2011	578	7.8	17.6	9.1	1.0	2.3	37.5	19.9	4.8	35.5	38.0	32.8
Lithuania	2007	572	11.2	39.2	13.3	0.2	3.7	24.3	5.3	2.7	64.0	62.6	65.5
	2011	670	6.8	42.5	15.6	2.2	8.1	19.0	5.0	0.8	67.1	72.8	61.8
Netherlands	2007	480	18.7	39.8	11.4	0.0	9.9	18.7	1.0	0.5	69.9	64.0	75.3
	2011	459	17.3	40.9	11.1	1.5	9.6	17.1	1.5	1.1	70.8	68.3	73.1
New Zealand	2007	718	5.0	42.1	4.8	0.2	15.8	19.8	9.8	2.6	52.1	54.1	50.0
	2011	786	5.9	44.1	4.2	0.7	17.6	20.4	6.1	1.0	55.0	51.8	57.8
Norway	2007	591	5.1	35.0	7.1	0.0	15.6	20.5	10.1	6.6	47.1	40.1	55.3
	2011	463	4.4	42.7	3.7	0.6	28.6	10.9	7.4	1.6	51.5	47.6	55.8
Russian Federation	2007	644	13.7	48.2	12.4	0.0	0.0	14.9	7.8	2.9	74.3	76.6	72.2
	2011	630	13.8	40.7	16.0	0.4	4.2	19.0	5.3	0.8	70.8	71.4	70.2
Singapore	2007	714	11.1	47.5	8.4	0.1	14.4	16.3	2.1	0.0	67.2	67.3	67.1
	2011	906	10.9	57.7	3.6	0.0	10.2	15.7	1.6	0.1	72.2	73.3	71.1
Slovak Republic	2007	715	7.3	28.6	24.3	2.0	6.6	20.0	8.4	2.7	62.3	62.1	62.4
	2011	817	7.9	31.1	23.8	0.4	5.8	23.4	6.6	1.0	63.3	62.0	64.6
Slovenia	2007	625	6.3	24.3	10.1	1.1	14.2	26.6	13.2	4.3	41.7	45.7	38.3
	2011	642	10.5	18.5	21.9	0.5	10.7	27.5	8.0	2.3	51.5	51.8	51.2

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

S01_11A (S031390A): Life Science / Applying
Label: Animal extinction - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	7.2	48.0	21.1	0.1	7.2	6.2	5.9	4.2	76.4	77.5	75.2
	2011	666	7.6	50.4	14.6	1.1	11.8	7.5	5.3	1.7	73.7	71.5	75.7
Tunisia	2007	593	2.7	17.8	2.9	0.0	0.2	42.7	19.5	14.1	23.4	27.2	19.9
	2011	698	1.6	25.4	2.9	0.5	0.6	40.8	18.2	9.9	30.5	33.4	27.6
United States	2007	1128	7.7	37.8	7.7	0.0	23.7	17.3	4.1	1.8	53.1	51.3	54.9
	2011	1790	9.9	45.0	6.2	0.2	20.1	13.2	4.1	1.3	61.3	57.3	65.4
International Avg. (25)	2007	15825	10.8	36.1	11.2	0.7	9.5	17.4	9.8	4.4	58.8	58.4	59.2
	2011	17563	11.6	36.2	11.5	0.6	11.5	19.2	7.5	1.9	59.9	59.5	60.4
Alberta, Canada	2007	564	6.7	43.1	11.8	0.6	6.3	23.4	5.6	2.5	62.2	60.0	64.4
	2011	526	7.4	42.8	11.0	1.5	5.4	25.4	4.8	1.7	62.7	62.0	63.4
Ontario, Canada	2007	503	11.6	35.2	9.4	0.3	5.0	28.7	5.0	4.7	56.6	51.3	61.4
	2011	654	14.8	33.4	10.3	1.2	7.2	22.7	5.8	4.6	59.7	59.1	60.3
Quebec, Canada	2007	578	6.0	47.9	8.5	0.1	3.4	17.6	10.9	5.7	62.5	62.7	62.3
	2011	597	4.3	54.1	9.3	0.7	6.2	18.8	5.5	1.0	68.5	67.3	69.9
Dubai, UAE	2007	434	5.8	28.7	1.6	0.9	7.4	27.9	22.1	5.7	36.9	42.6	31.6
	2011	887	9.0	26.7	1.9	0.1	12.6	32.2	15.5	2.0	37.7	40.0	35.6

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

S01_11B (S031390B): Life Science / Applying
Label: Animal extinction - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	15.3	9.8	7.6	1.8	14.1	41.7	5.6	4.1	34.5	31.0	38.3
	2011	880	12.7	13.3	6.8	0.5	9.6	46.7	7.9	2.4	33.4	32.3	34.4
Austria	2007	691	11.1	16.2	14.5	2.0	11.0	23.3	19.5	2.3	43.9	34.1	51.5
	2011	674	13.2	16.1	13.5	2.3	6.0	33.3	14.7	0.9	45.1	43.6	46.5
Chinese Taipei	2007	594	13.6	17.4	21.0	0.0	7.7	27.8	11.4	1.0	52.1	48.6	55.2
	2011	611	13.3	14.5	16.9	0.0	11.3	36.1	7.7	0.0	44.8	46.1	43.7
Czech Republic	2007	591	9.7	12.5	10.9	3.3	9.2	33.0	18.3	3.2	36.4	33.0	39.7
	2011	651	11.6	13.9	16.4	0.7	9.1	36.4	11.4	0.6	42.6	36.3	49.4
Denmark	2007	506	11.9	14.4	14.3	0.3	14.1	28.7	12.0	4.4	40.8	38.4	43.4
	2011	578	13.3	18.4	14.1	2.4	10.4	30.3	8.4	2.7	48.3	49.6	46.8
England	2007	631	11.6	15.2	6.3	0.0	18.6	36.2	11.6	0.6	33.0	34.9	31.3
	2011	485	15.2	14.4	5.9	0.0	23.7	31.6	8.5	0.7	35.5	38.9	32.5
Georgia	2007	588	8.9	11.4	2.8	1.8	2.1	30.7	27.5	14.8	25.0	25.6	24.4
	2011	673	13.2	13.7	6.5	4.4	2.3	36.0	19.2	4.8	37.7	35.6	39.8
Germany	2007	734	11.7	18.9	16.6	0.0	12.5	24.0	12.5	3.8	47.2	42.1	52.1
	2011	565	12.2	20.6	10.2	0.0	20.1	21.6	13.3	2.0	43.0	42.2	43.8
Hong Kong SAR	2007	540	12.6	11.1	14.1	4.8	9.8	38.6	8.6	0.5	42.6	38.4	46.8
	2011	555	8.0	10.6	6.3	4.4	12.0	49.8	8.6	0.3	29.3	27.2	31.1
Hungary	2007	587	10.2	19.6	16.9	2.0	6.2	29.1	11.1	4.9	48.7	44.0	53.7
	2011	739	12.5	15.7	15.1	0.1	11.2	35.0	8.7	1.7	43.4	40.7	46.5
Iran, Islamic Rep. of	2007	536	4.8	9.4	7.5	0.8	3.5	38.8	25.2	10.0	22.6	21.6	23.6
	2011	822	8.2	14.0	12.0	0.9	9.5	33.2	18.2	4.0	35.1	33.4	36.8
Italy	2007	641	15.9	21.8	17.5	1.0	2.8	21.8	14.7	4.5	56.2	57.2	55.2
	2011	597	19.1	15.4	14.9	0.6	9.7	29.1	9.7	1.6	49.9	47.4	52.7
Japan	2007	639	16.9	15.6	7.1	0.3	31.3	20.2	7.4	1.1	39.9	43.0	36.8
	2011	626	14.3	11.4	6.0	0.2	34.9	25.7	7.4	0.1	31.8	29.4	34.2
Kuwait	2007	525	1.1	4.5	4.5	3.9	0.3	33.9	38.4	13.3	14.1	15.9	11.9
	2011	578	6.8	7.3	7.5	1.2	1.4	47.0	24.0	4.8	22.8	27.6	17.4
Lithuania	2007	572	8.6	13.4	13.5	0.3	6.6	42.1	12.9	2.7	35.7	33.0	38.5
	2011	670	8.5	10.5	11.4	1.4	9.6	48.5	9.3	0.8	31.8	33.1	30.5
Netherlands	2007	480	18.2	20.3	9.6	0.0	11.0	38.1	2.3	0.5	48.1	44.1	51.8
	2011	459	17.3	23.2	10.3	0.7	9.9	35.3	2.2	1.1	51.5	51.8	51.5
New Zealand	2007	718	10.3	9.1	7.9	1.4	15.5	41.3	11.9	2.6	28.7	26.8	30.7
	2011	786	6.8	13.0	6.7	2.0	18.8	45.2	6.5	1.0	28.5	26.8	30.1
Norway	2007	591	8.5	10.1	5.4	0.0	17.6	36.4	15.4	6.6	24.0	23.2	24.9
	2011	463	4.4	10.4	9.2	0.2	33.7	29.6	11.0	1.6	24.2	26.7	21.3
Russian Federation	2007	644	16.7	21.8	17.1	0.1	0.1	28.9	12.3	2.9	55.8	54.9	56.6
	2011	630	12.3	22.3	15.7	1.1	7.2	32.3	8.2	0.8	51.5	54.1	49.0
Singapore	2007	714	14.7	10.9	10.0	0.1	15.0	46.7	2.5	0.0	35.8	33.1	38.3
	2011	906	12.5	12.8	8.2	0.9	11.3	51.9	2.4	0.1	34.3	31.7	37.0
Slovak Republic	2007	715	6.5	14.4	18.6	0.9	7.4	35.3	14.2	2.7	40.5	42.2	38.7
	2011	817	9.2	15.8	18.7	1.0	5.5	37.8	10.9	1.0	44.8	42.5	47.1
Slovenia	2007	624	7.5	10.3	7.0	3.1	11.2	38.7	18.0	4.3	27.9	28.2	27.6
	2011	642	7.8	14.4	16.4	1.5	9.8	36.2	11.6	2.3	40.1	40.1	40.1

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

S01_11B (S031390B): Life Science / Applying
Label: Animal extinction - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	10.6	17.5	22.7	0.2	8.7	25.8	10.5	4.2	50.9	52.8	48.8
	2011	666	11.9	17.5	16.0	0.6	10.7	32.4	9.1	1.7	46.0	44.0	47.9
Tunisia	2007	593	2.1	3.1	2.4	0.7	0.0	54.8	22.8	14.1	8.3	8.3	8.3
	2011	698	4.7	4.6	2.5	1.6	0.2	53.3	23.2	9.9	13.4	12.9	14.0
United States	2007	1128	12.8	11.2	9.8	0.2	24.1	34.8	5.3	1.8	34.1	32.3	35.8
	2011	1790	13.1	11.4	10.5	1.0	26.0	32.2	4.7	1.3	35.9	33.9	37.9
International Avg. (25)	2007	15824	10.9	13.6	11.4	1.2	10.4	34.0	14.1	4.4	37.1	35.5	38.6
	2011	17561	11.3	14.2	11.1	1.2	12.6	37.1	10.7	1.9	37.8	37.1	38.5
Alberta, Canada	2007	564	12.9	10.7	11.9	2.5	7.8	44.2	7.6	2.5	37.9	32.9	43.2
	2011	526	18.3	10.6	10.5	4.8	6.4	41.9	5.8	1.7	44.2	40.7	48.1
Ontario, Canada	2007	503	9.1	13.0	13.6	1.9	7.1	45.0	5.7	4.7	37.6	38.0	37.2
	2011	654	12.2	11.7	14.2	5.1	5.3	40.2	6.7	4.6	43.1	45.4	41.0
Quebec, Canada	2007	578	7.3	10.5	13.9	0.5	4.8	43.6	13.7	5.7	32.1	33.6	30.4
	2011	597	9.6	9.9	10.8	2.8	7.7	49.9	8.2	1.0	33.2	29.8	37.1
Dubai, UAE	2007	434	9.1	9.0	6.9	0.7	8.7	36.2	23.7	5.7	25.6	25.9	25.4
	2011	887	7.1	10.9	3.1	0.3	10.7	48.4	17.5	2.0	21.4	22.3	20.6

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

S01_11Z (S031390Z): Life Science / Applying
Label: Animal extinction-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	28.0	40.4	23.3	0.0	4.3	4.1	68.4	28.0	23.7	32.7
	2011	880	26.0	35.4	0.0	30.5	5.7	2.4	61.4	26.0	24.7	27.3
Austria	2007	691	37.4	35.8	11.2	0.0	13.3	2.3	73.2	37.4	29.6	43.5
	2011	674	37.9	38.5	0.0	12.6	10.0	0.9	76.5	37.9	34.9	40.8
Chinese Taipei	2007	594	45.7	36.5	9.1	0.0	7.7	1.0	82.2	45.7	41.7	49.2
	2011	611	38.2	45.1	0.0	10.9	5.8	0.0	83.4	38.2	39.2	37.4
Czech Republic	2007	591	26.7	39.8	20.8	0.0	9.6	3.2	66.5	26.7	24.5	28.8
	2011	651	33.0	36.7	0.0	23.4	6.3	0.6	69.8	33.0	28.6	37.8
Denmark	2007	506	30.1	37.2	19.5	0.0	8.7	4.4	67.3	30.1	25.2	35.6
	2011	578	38.2	33.3	0.0	21.2	4.7	2.7	71.5	38.2	40.3	35.9
England	2007	631	25.3	39.1	25.2	0.0	9.9	0.6	64.4	25.3	26.0	24.6
	2011	485	30.2	33.6	0.0	28.4	7.1	0.7	63.8	30.2	31.5	29.1
Georgia	2007	588	23.0	26.9	13.9	0.0	21.5	14.8	49.9	23.0	23.6	22.4
	2011	673	32.5	31.6	0.0	19.7	11.4	4.8	64.1	32.5	29.9	35.1
Germany	2007	734	42.2	31.7	14.9	0.0	7.3	3.8	73.9	42.2	37.6	46.7
	2011	565	32.8	36.3	0.0	21.4	7.5	2.0	69.1	32.8	31.2	34.3
Hong Kong SAR	2007	540	37.1	45.0	13.1	0.0	4.4	0.5	82.1	37.1	33.3	41.1
	2011	555	20.5	49.6	0.0	25.2	4.5	0.3	70.0	20.5	17.2	23.3
Hungary	2007	587	44.6	32.8	13.0	0.0	4.7	4.9	77.4	44.6	40.5	48.9
	2011	739	35.8	30.8	0.0	27.8	3.9	1.7	66.6	35.8	33.1	38.9
Iran, Islamic Rep. of	2007	536	18.3	34.6	17.4	0.0	19.7	10.0	52.9	18.3	15.6	21.0
	2011	822	28.5	33.9	0.0	19.7	14.0	4.0	62.4	28.5	27.9	28.9
Italy	2007	641	53.3	24.3	10.3	0.0	7.6	4.5	77.7	53.3	54.9	51.7
	2011	597	44.0	38.1	0.0	9.9	6.4	1.6	82.2	44.0	40.9	47.5
Japan	2007	639	25.4	41.1	27.6	0.0	4.8	1.1	66.5	25.4	28.5	22.3
	2011	626	15.6	45.2	0.0	34.5	4.5	0.1	60.8	15.6	13.5	17.7
Kuwait	2007	525	11.4	13.0	31.1	0.0	31.2	13.3	24.4	11.4	14.4	8.0
	2011	578	19.1	20.2	0.0	38.6	17.3	4.8	39.3	19.1	22.7	15.0
Lithuania	2007	572	28.8	42.1	21.1	0.0	5.3	2.7	70.9	28.8	25.3	32.4
	2011	670	27.0	45.0	0.0	22.3	5.0	0.8	71.9	27.0	29.7	24.5
Netherlands	2007	480	39.2	39.5	19.8	0.0	1.0	0.5	78.7	39.2	35.1	43.1
	2011	459	41.0	40.3	0.0	16.1	1.5	1.1	81.3	41.0	41.1	41.1
New Zealand	2007	718	22.4	36.0	29.3	0.0	9.6	2.6	58.4	22.4	19.8	25.1
	2011	786	22.8	37.9	0.0	32.9	5.4	1.0	60.7	22.8	20.8	24.6
Norway	2007	591	15.6	39.9	28.6	0.0	9.3	6.6	55.5	15.6	14.9	16.4
	2011	463	13.0	49.6	0.0	28.5	7.2	1.6	62.7	13.0	13.4	12.7
Russian Federation	2007	644	51.9	26.3	11.1	0.0	7.8	2.9	78.2	51.9	51.2	52.6
	2011	630	44.2	33.8	0.0	15.9	5.3	0.8	78.1	44.2	45.5	43.1
Singapore	2007	714	32.6	37.7	27.6	0.0	2.1	0.0	70.3	32.6	28.4	36.6
	2011	906	29.3	48.0	0.0	20.9	1.6	0.1	77.3	29.3	27.7	30.9
Slovak Republic	2007	715	34.3	34.2	20.5	0.0	8.3	2.7	68.4	34.3	33.8	34.7
	2011	817	37.0	34.0	0.0	22.1	5.8	1.0	71.0	37.0	34.9	39.2
Slovenia	2007	624	22.2	25.3	35.8	0.0	12.5	4.3	47.5	22.2	22.5	21.9
	2011	642	28.3	34.9	0.0	27.3	7.1	2.3	63.3	28.3	28.0	28.6

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

S01_11Z (S031390Z): Life Science / Applying
Label: Animal extinction-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	662	45.3	36.8	8.2	0.0	5.6	4.2	82.0	45.3	48.9	41.3
	2011	666	40.5	38.7	0.0	13.8	5.3	1.7	79.2	40.5	37.3	43.5
Tunisia	2007	593	6.6	18.4	42.0	0.0	18.7	14.1	25.1	6.6	7.2	6.1
	2011	698	10.6	22.6	0.0	39.4	17.4	9.9	33.3	10.6	11.1	10.2
United States	2007	1128	25.9	35.4	32.8	0.0	4.1	1.8	61.3	25.9	24.8	26.9
	2011	1790	28.8	39.7	0.0	26.2	4.1	1.3	68.5	28.8	25.0	32.6
International Avg. (25)	2007	15824	30.9	34.0	21.1	0.0	9.6	4.4	64.9	30.9	29.2	32.5
	2011	17561	30.2	37.3	0.0	23.6	7.0	1.9	67.5	30.2	29.2	31.2
Alberta, Canada	2007	564	34.6	30.9	26.4	0.0	5.6	2.5	65.5	34.6	30.5	38.9
	2011	526	38.3	30.3	0.0	25.0	4.7	1.7	68.6	38.3	34.8	42.1
Ontario, Canada	2007	503	30.9	32.4	27.0	0.0	5.0	4.7	63.3	30.9	30.4	31.3
	2011	654	35.8	31.3	0.0	22.5	5.8	4.6	67.1	35.8	36.3	35.3
Quebec, Canada	2007	578	30.3	34.1	19.1	0.0	10.9	5.7	64.4	30.3	31.9	28.2
	2011	597	28.4	44.9	0.0	20.6	5.1	1.0	73.3	28.4	25.7	31.5
Dubai, UAE	2007	434	19.5	23.4	29.3	0.0	22.0	5.7	43.0	19.5	20.9	18.3
	2011	887	16.7	25.6	0.0	40.8	14.8	2.0	42.4	16.7	18.2	15.4

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

S03_01 (S041117): Physical Science / Knowing
Label: Force causing boat to sail - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	92.8	2.7	92.8	2.7	0.8	0.9	0.0	92.3	93.3
	2011	888	95.3	2.1	95.3	1.3	0.6	0.7	0.0	94.7	96.0
Austria	2007	698	95.9	1.4	95.9	0.8	0.7	1.3	0.0	94.2	97.4
	2011	669	97.8	0.6	97.8	0.7	0.6	0.3	0.0	97.8	97.7
Chinese Taipei	2007	593	98.3	1.3	98.3	0.0	0.1	0.3	0.0	97.6	98.8
	2011	612	99.1	0.8	99.1	0.0	0.1	0.1	0.0	99.4	98.8
Czech Republic	2007	594	94.7	1.9	94.7	1.6	1.3	0.5	0.0	94.8	94.7
	2011	656	98.2	1.0	98.2	0.3	0.4	0.1	0.0	97.7	98.7
Denmark	2007	513	92.2	4.4	92.2	1.7	0.3	1.2	0.2	88.9	95.5
	2011	560	94.3	2.4	94.3	0.9	0.4	1.7	0.2	94.0	94.6
England	2007	615	85.3	6.6	85.3	4.9	1.5	1.7	0.0	79.9	90.7
	2011	472	90.7	4.5	90.7	3.1	0.7	0.8	0.2	90.6	90.7
Georgia	2007	581	75.3	6.4	75.3	3.8	11.0	3.6	0.0	69.0	80.7
	2011	687	83.0	9.5	83.0	1.7	3.9	1.3	0.5	77.8	88.8
Germany	2007	748	97.4	1.0	97.4	0.4	0.8	0.5	0.0	95.9	98.6
	2011	566	97.1	0.7	97.1	0.7	0.9	0.6	0.0	97.1	97.2
Hong Kong SAR	2007	538	92.0	2.8	92.0	4.3	0.6	0.3	0.0	88.4	95.0
	2011	573	89.6	4.9	89.6	4.3	0.5	0.6	0.2	83.9	94.6
Hungary	2007	580	95.1	2.2	95.1	1.7	0.3	0.8	0.0	95.9	94.4
	2011	743	93.0	2.6	93.0	2.2	0.6	1.5	0.1	92.7	93.2
Iran, Islamic Rep. of	2007	544	80.2	8.7	80.2	4.2	5.1	1.7	0.0	75.8	83.7
	2011	830	84.2	6.9	84.2	4.8	2.1	1.7	0.3	79.3	89.1
Italy	2007	633	95.4	2.1	95.4	1.0	0.6	1.0	0.0	94.1	96.6
	2011	598	96.4	1.9	96.4	0.4	0.7	0.6	0.1	95.9	96.8
Japan	2007	644	84.5	10.4	84.5	3.3	0.3	1.1	0.4	80.2	88.6
	2011	638	92.9	4.7	92.9	1.2	0.5	0.7	0.0	92.7	93.2
Kuwait	2007	542	84.9	7.8	84.9	2.6	1.6	1.9	1.2	84.6	85.2
	2011	591	74.1	12.5	74.1	6.4	3.9	2.4	0.7	75.0	73.0
Lithuania	2007	577	91.0	4.2	91.0	1.6	1.6	1.7	0.0	93.0	88.9
	2011	669	93.0	2.8	93.0	2.7	1.3	0.1	0.0	90.6	95.5
Netherlands	2007	471	94.8	3.5	94.8	0.7	0.5	0.5	0.0	94.5	95.2
	2011	461	94.1	3.8	94.1	1.5	0.0	0.7	0.0	92.4	96.1
New Zealand	2007	687	90.8	3.9	90.8	2.6	1.7	0.7	0.2	88.0	93.7
	2011	789	93.2	3.5	93.2	1.3	1.3	0.7	0.0	92.5	93.9
Norway	2007	584	89.7	7.6	89.7	0.8	0.5	1.0	0.4	84.8	93.9
	2011	456	93.3	5.4	93.3	0.2	0.5	0.5	0.0	92.4	94.4
Russian Federation	2007	640	96.8	1.5	96.8	0.5	0.7	0.4	0.0	95.4	98.3
	2011	633	95.9	1.1	95.9	1.7	1.0	0.3	0.0	96.1	95.6
Singapore	2007	726	90.3	6.5	90.3	2.1	0.5	0.5	0.0	88.5	92.2
	2011	909	91.8	5.4	91.8	2.6	0.2	0.0	0.0	89.9	93.5
Slovak Republic	2007	701	87.9	7.7	87.9	1.7	1.6	1.1	0.0	84.8	90.9
	2011	801	94.0	3.1	94.0	1.6	0.4	0.6	0.3	91.6	96.2
Slovenia	2007	613	96.1	1.1	96.1	1.1	1.2	0.4	0.0	94.1	98.3
	2011	638	98.2	0.2	98.2	0.5	0.2	0.7	0.2	96.8	99.3

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

S03_01 (S041117): Physical Science / Knowing
Label: Force causing boat to sail - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	93.5	5.2	93.5	0.5	0.3	0.6	0.0	91.2	95.6
	2011	663	95.4	2.2	95.4	0.6	0.3	1.2	0.3	95.3	95.6
Tunisia	2007	584	77.4	4.3	77.4	7.0	3.2	7.6	0.5	80.0	75.3
	2011	692	83.4	2.9	83.4	4.7	2.0	4.8	2.2	85.9	81.0
United States	2007	1135	91.9	3.9	91.9	1.7	1.4	1.1	0.1	88.7	95.0
	2011	1800	92.9	2.9	92.9	1.6	0.3	2.0	0.2	91.9	94.1

International Avg. (25)	2007	15792	90.6	4.4	90.6	2.1	1.5	1.3	0.1	88.6	92.4
	2011	17594	92.4	3.5	92.4	1.9	0.9	1.0	0.2	91.4	93.5

Alberta, Canada	2007	582	92.6	1.9	92.6	4.2	0.4	1.0	0.0	89.6	95.5
	2011	521	94.8	2.2	94.8	2.2	0.2	0.5	0.0	91.2	98.4
Ontario, Canada	2007	506	94.1	2.7	94.1	2.9	0.0	0.3	0.1	89.6	98.3
	2011	670	94.2	2.7	94.2	2.2	0.3	0.3	0.3	93.2	95.2
Quebec, Canada	2007	531	91.5	5.7	91.5	1.2	1.4	0.2	0.0	89.6	93.5
	2011	584	93.0	3.3	93.0	1.6	0.7	1.1	0.3	90.7	95.2
Dubai, UAE	2007	428	84.0	7.2	84.0	5.3	2.2	1.0	0.2	83.9	84.1
	2011	882	87.3	6.9	87.3	3.4	1.4	0.9	0.1	88.7	85.9

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

S03_02 (S041120): Physical Science / Knowing
Label: Objects that produce light - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	584	43.1	8.9	5.5	43.1	38.4	4.1	0.0	41.4	44.7
	2011	888	45.0	9.1	7.0	45.0	36.7	2.2	0.0	39.3	51.3
Austria	2007	698	51.5	8.8	3.0	51.5	32.4	4.3	0.0	42.7	59.5
	2011	669	50.2	5.9	3.8	50.2	35.8	4.3	0.0	43.7	57.3
Chinese Taipei	2007	593	41.2	6.7	2.7	41.2	47.5	1.9	0.0	33.8	47.3
	2011	612	40.3	6.9	8.3	40.3	42.0	2.5	0.0	31.7	48.1
Czech Republic	2007	594	79.1	4.7	1.1	79.1	12.2	2.9	0.0	74.2	82.9
	2011	656	86.4	3.8	0.5	86.4	8.2	1.0	0.0	81.6	90.6
Denmark	2007	509	36.1	7.6	6.1	36.1	47.1	2.9	0.2	29.5	42.7
	2011	560	39.6	10.4	5.1	39.6	40.0	4.7	0.2	31.7	47.8
England	2007	615	48.3	5.7	4.1	48.3	37.2	4.8	0.0	41.9	54.7
	2011	472	42.3	8.8	5.9	42.3	39.6	3.1	0.2	33.4	50.5
Georgia	2007	581	60.9	17.4	3.5	60.9	13.6	4.6	0.0	59.8	61.8
	2011	687	64.7	9.2	1.5	64.7	21.6	2.4	0.5	62.4	67.3
Germany	2007	748	49.4	6.1	3.5	49.4	35.8	5.2	0.0	39.5	57.8
	2011	566	49.1	6.8	5.6	49.1	36.0	2.6	0.0	42.3	55.2
Hong Kong SAR	2007	538	27.0	3.7	0.6	27.0	68.0	0.7	0.0	20.0	33.0
	2011	573	27.6	4.1	0.9	27.6	66.7	0.5	0.2	17.4	36.7
Hungary	2007	580	40.6	4.2	5.1	40.6	45.4	4.6	0.0	38.0	43.1
	2011	743	44.0	7.2	7.5	44.0	36.3	4.6	0.5	40.5	47.2
Iran, Islamic Rep. of	2007	544	51.9	7.7	4.0	51.9	34.3	2.1	0.0	47.3	55.5
	2011	830	57.4	5.6	4.3	57.4	30.6	1.6	0.5	56.9	57.8
Italy	2007	625	73.4	5.2	1.2	73.4	18.8	1.2	0.2	69.1	77.2
	2011	598	55.7	10.4	4.2	55.7	27.1	2.5	0.1	51.3	59.4
Japan	2007	644	30.5	7.8	18.3	30.5	39.9	3.1	0.4	28.0	32.7
	2011	638	34.9	5.6	13.6	34.9	43.5	2.4	0.0	28.7	41.5
Kuwait	2007	542	60.9	16.8	4.3	60.9	11.1	5.6	1.3	64.0	57.5
	2011	589	48.1	16.7	9.9	48.1	20.1	4.6	0.7	52.4	43.1
Lithuania	2007	577	61.0	6.6	5.1	61.0	20.4	6.9	0.0	63.7	58.2
	2011	669	59.3	9.8	4.3	59.3	22.5	4.0	0.0	59.8	58.8
Netherlands	2007	471	56.4	6.6	4.7	56.4	28.9	3.2	0.2	47.4	66.0
	2011	461	41.4	10.9	6.9	41.4	38.0	2.8	0.0	32.6	52.2
New Zealand	2007	687	47.0	8.3	8.7	47.0	32.8	3.0	0.2	42.4	51.7
	2011	789	45.0	10.1	9.9	45.0	33.5	1.6	0.0	40.6	49.5
Norway	2007	584	34.5	8.1	7.1	34.5	46.7	3.1	0.5	28.8	39.4
	2011	456	32.1	10.9	6.2	32.1	46.7	4.2	0.0	25.9	38.8
Russian Federation	2007	640	59.9	10.2	1.9	59.9	26.4	1.7	0.0	56.4	63.6
	2011	633	55.0	10.2	6.1	55.0	27.4	1.4	0.0	51.7	58.4
Singapore	2007	726	75.8	3.1	1.8	75.8	18.7	0.5	0.0	71.1	80.5
	2011	909	80.8	2.9	2.2	80.8	14.1	0.0	0.0	80.9	80.7
Slovak Republic	2007	701	67.3	6.2	2.1	67.3	21.3	3.1	0.0	61.1	73.2
	2011	801	70.2	4.7	2.7	70.2	19.8	2.3	0.3	66.8	73.5
Slovenia	2007	613	61.4	10.2	4.8	61.4	21.1	2.5	0.0	59.3	63.5
	2011	632	64.3	10.3	4.1	64.3	17.9	3.2	0.2	61.4	66.8

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

S03_02 (S041120): Physical Science / Knowing
Label: Objects that produce light - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	46.9	8.7	4.8	46.9	36.4	3.2	0.1	35.8	57.4
	2011	663	50.8	9.3	3.2	50.8	34.4	2.1	0.3	50.3	51.3
Tunisia	2007	584	42.3	19.2	5.5	42.3	14.2	18.3	0.5	40.1	44.1
	2011	669	41.3	17.4	8.1	41.3	13.6	17.4	2.3	42.8	39.9
United States	2007	1135	53.8	5.4	3.9	53.8	35.4	1.4	0.1	47.3	60.2
	2011	1800	51.3	6.4	4.6	51.3	34.5	3.0	0.2	47.4	55.5
International Avg. (25)	2007	15776	52.0	8.2	4.5	52.0	31.4	3.8	0.1	47.3	56.3
	2011	17563	51.1	8.5	5.4	51.1	31.5	3.2	0.2	46.9	55.2
Alberta, Canada	2007	582	59.3	4.8	3.0	59.3	31.6	1.4	0.0	57.2	61.3
	2011	521	56.7	7.9	3.2	56.7	29.4	2.9	0.0	50.5	62.8
Ontario, Canada	2007	506	51.6	6.7	3.7	51.6	36.3	1.6	0.1	42.9	59.8
	2011	670	44.9	5.9	6.2	44.9	41.7	1.0	0.3	36.7	53.3
Quebec, Canada	2007	531	44.9	8.6	3.5	44.9	38.7	4.3	0.0	32.5	58.0
	2011	584	38.8	10.0	7.1	38.8	39.6	4.1	0.3	38.0	39.5
Dubai, UAE	2007	428	52.1	7.7	5.1	52.1	29.5	5.4	0.2	49.2	54.6
	2011	882	50.7	9.1	5.8	50.7	31.4	2.8	0.1	52.1	49.3

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

S03_03 (S041003): Life Science / Knowing
Label: Living-nonliving things in a pond - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	55.7	41.3	2.9	0.1	55.7	57.3	54.2
	2011	888	48.5	49.3	2.1	0.0	48.5	48.6	48.5
Austria	2007	698	27.6	70.4	2.0	0.0	27.6	26.2	28.8
	2011	669	31.2	68.0	0.8	0.0	31.2	31.5	30.9
Chinese Taipei	2007	593	24.4	73.5	2.0	0.0	24.4	23.8	24.9
	2011	612	16.5	81.3	2.1	0.0	16.5	16.6	16.5
Czech Republic	2007	594	56.8	41.2	2.1	0.0	56.8	54.7	58.4
	2011	656	55.3	40.8	3.9	0.0	55.3	53.0	57.3
Denmark	2007	513	43.7	54.0	2.1	0.2	43.7	43.5	44.0
	2011	560	44.7	52.0	2.9	0.4	44.7	48.7	40.6
England	2007	615	49.3	48.7	2.1	0.0	49.3	49.7	48.9
	2011	472	46.0	51.4	2.4	0.2	46.0	45.5	46.3
Georgia	2007	581	30.6	66.4	2.9	0.0	30.6	24.9	35.6
	2011	687	19.1	76.5	3.9	0.5	19.1	20.1	17.9
Germany	2007	748	38.0	61.0	1.0	0.0	38.0	37.4	38.4
	2011	566	39.9	60.0	0.1	0.0	39.9	39.7	40.1
Hong Kong SAR	2007	538	48.6	50.3	1.1	0.0	48.6	52.6	45.3
	2011	573	39.5	60.0	0.4	0.2	39.5	38.2	40.6
Hungary	2007	580	67.9	31.3	0.8	0.0	67.9	68.7	67.1
	2011	742	69.6	29.1	0.7	0.5	69.6	68.9	70.3
Iran, Islamic Rep. of	2007	544	35.0	63.2	1.8	0.0	35.0	34.9	35.1
	2011	830	46.6	51.1	1.9	0.5	46.6	45.3	47.8
Italy	2007	635	71.7	25.6	2.5	0.2	71.7	71.1	72.3
	2011	598	66.6	30.3	2.9	0.1	66.6	62.5	70.1
Japan	2007	644	37.1	62.2	0.4	0.4	37.1	32.4	41.5
	2011	638	39.1	60.3	0.5	0.1	39.1	38.8	39.4
Kuwait	2007	542	26.4	62.3	10.0	1.3	26.4	25.6	27.3
	2011	594	18.6	74.3	6.3	0.9	18.6	17.1	20.3
Lithuania	2007	577	48.5	50.1	1.4	0.0	48.5	47.6	49.5
	2011	669	53.9	46.0	0.1	0.0	53.9	54.4	53.5
Netherlands	2007	471	53.9	45.8	0.1	0.2	53.9	53.3	54.6
	2011	461	51.6	48.0	0.4	0.0	51.6	51.8	51.6
New Zealand	2007	687	45.7	52.7	1.3	0.2	45.7	48.0	43.4
	2011	787	42.5	55.7	1.8	0.0	42.5	42.5	42.5
Norway	2007	584	36.6	57.5	5.4	0.5	36.6	37.2	36.2
	2011	456	43.4	52.3	4.3	0.0	43.4	44.7	42.0
Russian Federation	2007	640	55.5	42.5	1.9	0.0	55.5	53.5	57.8
	2011	633	59.8	39.3	0.9	0.0	59.8	64.1	55.3
Singapore	2007	726	83.3	16.4	0.2	0.0	83.3	84.9	81.8
	2011	909	88.0	11.9	0.1	0.0	88.0	87.9	88.2
Slovak Republic	2007	701	63.0	35.1	1.9	0.0	63.0	62.1	63.8
	2011	801	65.6	33.4	0.8	0.3	65.6	63.5	67.6
Slovenia	2007	613	57.4	42.5	0.2	0.0	57.4	61.2	53.4
	2011	638	58.1	41.0	0.7	0.2	58.1	55.7	60.0

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

S03_03 (S041003): Life Science / Knowing
Label: Living-nonliving things in a pond - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	42.0	56.7	1.2	0.1	42.0	44.5	39.7
	2011	663	47.6	50.7	1.4	0.3	47.6	49.8	45.4
Tunisia	2007	584	17.5	70.2	11.7	0.5	17.5	14.9	19.7
	2011	702	14.8	72.4	10.3	2.5	14.8	16.2	13.4
United States	2007	1135	54.7	44.1	1.0	0.2	54.7	54.0	55.4
	2011	1800	57.7	40.1	1.9	0.2	57.7	57.9	57.6

International Avg. (25)	2007	15794	46.8	50.6	2.4	0.2	46.8	46.6	47.1
	2011	17604	46.6	51.0	2.1	0.3	46.6	46.5	46.6

Alberta, Canada	2007	582	63.1	35.4	1.5	0.0	63.1	61.9	64.3
	2011	521	63.1	35.3	1.2	0.4	63.1	58.4	67.7
Ontario, Canada	2007	506	53.6	45.9	0.5	0.1	53.6	56.3	51.1
	2011	670	56.5	41.9	1.3	0.3	56.5	54.0	59.0
Quebec, Canada	2007	531	54.5	44.7	0.8	0.0	54.5	53.8	55.2
	2011	584	52.1	45.7	1.8	0.3	52.1	47.9	56.1
Dubai, UAE	2007	428	58.2	40.0	1.5	0.2	58.2	65.6	51.5
	2011	882	52.0	44.7	3.2	0.1	52.0	52.6	51.3

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

S03_04 (S041224): Life Science / Knowing
Label: Flowering plant parts - Points: 2

COUNTRY	YEAR	N	20 %	21 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	3.5	7.7	38.0	23.9	24.0	2.4	0.5	49.2	11.2	10.1	12.2
	2011	888	2.6	7.3	34.1	29.5	23.6	2.9	0.0	43.9	9.9	7.7	12.3
Austria	2007	698	6.8	17.5	36.4	23.5	11.5	4.2	0.0	60.8	24.4	24.0	24.8
	2011	669	6.2	19.0	37.6	21.6	10.3	5.3	0.0	62.8	25.2	25.9	24.5
Chinese Taipei	2007	593	13.3	11.7	42.2	10.2	17.3	5.3	0.0	67.2	25.0	25.2	24.8
	2011	612	8.9	17.2	26.1	7.8	33.2	6.8	0.0	52.2	26.1	24.1	27.9
Czech Republic	2007	594	9.9	15.2	42.7	26.5	4.9	0.8	0.0	67.8	25.1	20.2	28.9
	2011	656	20.3	18.3	35.3	19.6	4.6	1.8	0.0	73.9	38.7	36.6	40.5
Denmark	2007	513	8.7	6.9	41.6	21.7	15.3	5.6	0.2	57.3	15.6	17.1	14.1
	2011	560	4.8	10.6	37.0	18.7	19.1	9.1	0.7	52.4	15.4	18.0	12.6
England	2007	615	11.4	13.1	38.7	16.8	17.8	1.9	0.2	63.2	24.5	26.1	22.8
	2011	472	7.3	13.9	37.3	16.6	21.7	3.1	0.2	58.5	21.2	20.3	22.1
Georgia	2007	581	3.4	5.0	16.3	35.6	28.6	11.1	0.0	24.7	8.4	7.6	9.2
	2011	687	6.2	3.8	19.8	26.1	33.3	9.7	1.0	29.8	10.0	10.7	9.2
Germany	2007	748	7.2	16.5	39.4	19.9	14.5	2.4	0.0	63.2	23.7	21.8	25.4
	2011	566	1.5	8.5	48.8	19.9	17.9	3.5	0.0	58.7	10.0	8.5	11.2
Hong Kong SAR	2007	538	15.8	17.3	43.6	4.0	15.3	3.9	0.0	76.8	33.2	32.8	33.5
	2011	573	7.1	9.1	49.8	2.8	27.0	4.1	0.2	66.0	16.2	14.2	18.0
Hungary	2007	580	19.5	19.0	36.2	21.3	3.4	0.7	0.0	74.7	38.5	39.0	38.0
	2011	742	16.5	17.6	38.6	17.9	7.8	1.1	0.5	72.6	34.1	31.8	36.2
Iran, Islamic Rep. of	2007	544	5.3	13.4	33.5	20.1	21.0	6.7	0.0	52.2	18.7	19.4	18.1
	2011	830	12.7	15.3	27.9	13.3	22.9	7.1	0.8	55.9	28.0	26.6	29.4
Italy	2007	635	24.3	9.5	32.6	17.5	11.5	4.5	0.2	66.4	33.8	34.7	33.0
	2011	598	20.1	16.4	40.7	8.4	9.5	4.4	0.5	77.2	36.5	38.3	34.9
Japan	2007	644	6.5	14.5	56.3	14.4	7.1	0.7	0.5	77.3	21.0	14.5	27.1
	2011	638	4.7	15.2	55.8	16.5	7.7	0.0	0.1	75.7	20.0	15.1	25.1
Kuwait	2007	542	2.3	1.6	42.8	8.1	22.2	21.3	1.7	46.6	3.9	4.7	3.0
	2011	593	5.9	11.7	19.0	7.2	46.1	9.1	1.1	36.5	17.5	22.9	11.4
Lithuania	2007	577	11.7	12.6	29.7	37.5	7.9	0.5	0.0	54.1	24.3	26.1	22.6
	2011	669	10.5	10.8	35.4	30.6	11.2	1.5	0.0	56.7	21.3	20.8	21.8
Netherlands	2007	471	7.0	12.4	51.4	18.7	7.0	3.3	0.2	70.8	19.4	18.2	20.8
	2011	461	2.3	5.2	51.4	28.1	12.2	0.7	0.0	59.0	7.6	7.1	8.2
New Zealand	2007	687	3.0	8.5	42.9	17.0	25.5	2.9	0.2	54.4	11.5	8.4	14.6
	2011	787	2.4	3.4	44.1	18.0	28.6	3.2	0.3	49.9	5.8	4.5	7.1
Norway	2007	584	1.1	3.5	28.8	31.6	29.9	4.0	1.2	33.3	4.5	4.6	4.5
	2011	456	1.7	2.8	37.0	26.9	27.7	4.0	0.0	41.5	4.5	4.0	5.0
Russian Federation	2007	640	9.6	13.8	37.8	21.6	15.3	2.0	0.0	61.2	23.4	23.4	23.3
	2011	633	10.0	10.4	39.0	12.8	25.7	2.1	0.0	59.4	20.4	19.4	21.4
Singapore	2007	726	56.8	22.0	12.7	4.6	3.6	0.4	0.0	91.4	78.8	79.4	78.1
	2011	909	59.5	20.6	13.3	3.5	2.9	0.2	0.0	93.4	80.1	81.4	79.0
Slovak Republic	2007	701	12.0	10.8	35.0	33.1	7.4	1.7	0.0	57.8	22.9	19.0	26.5
	2011	801	9.9	15.3	36.6	29.5	7.3	1.1	0.3	61.8	25.2	21.1	29.2
Slovenia	2007	613	4.2	8.2	36.6	36.9	13.8	0.2	0.0	49.1	12.5	10.6	14.4
	2011	638	4.7	10.8	42.8	28.1	11.4	1.9	0.3	58.3	15.5	13.4	17.2

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

S03_04 (S041224): Life Science / Knowing
Label: Flowering plant parts - Points: 2

COUNTRY	YEAR	N	20 %	21 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	1.5	9.1	44.8	16.8	23.4	4.4	0.1	55.4	10.5	9.0	12.0
	2011	663	5.3	12.8	42.0	8.3	24.4	6.8	0.3	60.2	18.1	23.0	13.1
Tunisia	2007	584	1.3	1.0	14.9	7.5	59.8	14.7	0.8	17.1	2.3	1.4	2.9
	2011	702	0.6	1.6	15.9	1.7	63.1	13.8	3.4	18.1	2.2	3.5	0.9
United States	2007	1135	8.0	10.1	39.4	22.2	16.9	3.1	0.2	57.6	18.2	16.9	19.4
	2011	1800	11.3	12.3	38.8	18.3	17.7	1.4	0.2	62.4	23.6	21.9	25.4
International Avg. (25)	2007	15794	10.2	11.2	36.6	20.4	17.0	4.3	0.2	58.0	21.4	20.6	22.2
	2011	17603	9.7	11.6	36.2	17.3	20.7	4.2	0.4	57.5	21.3	20.8	21.7
Alberta, Canada	2007	582	8.9	10.4	40.8	16.7	19.9	3.3	0.0	60.0	19.3	18.8	19.8
	2011	521	9.9	11.1	39.9	14.0	22.2	2.4	0.4	61.0	21.1	15.2	26.8
Ontario, Canada	2007	506	12.4	11.2	39.8	17.4	16.1	3.1	0.1	63.4	23.6	28.9	18.6
	2011	670	8.7	13.1	41.0	16.1	15.8	4.4	0.8	62.9	21.9	22.8	20.9
Quebec, Canada	2007	531	4.4	7.5	44.7	18.0	21.7	3.7	0.0	56.6	11.9	10.1	13.7
	2011	584	1.8	6.0	41.8	20.9	25.4	3.7	0.5	49.5	7.7	4.4	10.9
Dubai, UAE	2007	428	15.3	14.6	29.9	20.1	15.2	4.6	0.2	59.8	29.9	32.9	27.1
	2011	882	15.6	15.7	25.5	18.5	20.7	3.6	0.3	56.9	31.4	30.2	32.5

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

S03_05 (S041163): Life Science / Applying
Label: Group of animals contains reptiles - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	54.0	39.7	54.0	1.5	3.2	1.1	0.5	51.4	56.4
	2011	888	53.1	41.9	53.1	1.3	2.3	1.4	0.0	53.9	52.2
Austria	2007	698	46.8	38.8	46.8	2.9	6.3	5.1	0.0	44.1	49.3
	2011	669	41.4	48.5	41.4	2.4	4.8	2.9	0.0	39.6	43.4
Chinese Taipei	2007	593	65.8	15.4	65.8	1.9	14.1	2.6	0.2	68.7	63.5
	2011	612	70.3	13.6	70.3	1.7	13.5	0.8	0.0	72.4	68.4
Czech Republic	2007	594	40.7	24.7	40.7	5.1	27.4	2.0	0.0	37.7	43.1
	2011	656	48.4	31.9	48.4	1.8	16.2	1.6	0.0	46.3	50.3
Denmark	2007	511	22.1	54.8	22.1	2.3	17.0	3.3	0.5	17.5	26.8
	2011	560	23.0	54.3	23.0	2.2	15.9	3.5	1.0	19.7	26.5
England	2007	615	54.9	36.6	54.9	3.5	4.1	0.6	0.2	55.0	54.8
	2011	472	45.8	47.7	45.8	1.8	2.5	2.0	0.2	43.0	48.4
Georgia	2007	581	14.2	53.0	14.2	5.7	24.1	2.9	0.0	11.4	16.7
	2011	686	24.3	50.9	24.3	3.2	17.4	2.9	1.3	22.2	26.6
Germany	2007	748	53.4	35.1	53.4	3.3	5.4	2.8	0.0	48.7	57.3
	2011	566	47.2	41.4	47.2	4.1	4.4	2.8	0.0	45.4	48.9
Hong Kong SAR	2007	538	50.3	31.9	50.3	3.1	14.2	0.5	0.0	47.9	52.3
	2011	573	46.5	32.1	46.5	3.4	16.7	1.0	0.4	48.0	45.2
Hungary	2007	580	38.4	53.5	38.4	1.9	3.3	2.9	0.0	33.7	42.8
	2011	743	35.1	50.7	35.1	4.7	4.8	3.9	0.8	32.9	37.2
Iran, Islamic Rep. of	2007	544	43.1	18.7	43.1	12.0	23.1	3.1	0.0	41.3	44.4
	2011	830	47.3	14.8	47.3	12.1	20.8	3.5	1.6	44.2	50.3
Italy	2007	630	53.9	37.7	53.9	1.3	5.7	1.3	0.2	48.6	58.6
	2011	598	45.1	44.7	45.1	2.6	4.7	2.5	0.5	41.0	48.5
Japan	2007	644	16.4	63.0	16.4	5.5	11.9	2.4	0.7	16.6	16.3
	2011	638	14.3	69.9	14.3	4.7	9.6	1.4	0.1	11.6	17.1
Kuwait	2007	542	63.9	13.1	63.9	7.1	8.0	5.8	2.1	67.3	60.1
	2011	588	45.4	20.3	45.4	12.4	12.8	7.6	1.4	48.6	41.8
Lithuania	2007	577	54.2	29.5	54.2	7.6	6.4	2.3	0.0	54.3	54.1
	2011	669	56.2	30.9	56.2	5.5	6.0	1.4	0.0	57.2	55.1
Netherlands	2007	471	49.1	44.2	49.1	2.3	3.2	0.9	0.2	49.5	48.7
	2011	461	44.1	49.1	44.1	2.5	4.1	0.2	0.0	34.0	56.6
New Zealand	2007	687	57.5	35.2	57.5	1.9	3.0	2.1	0.4	54.2	60.9
	2011	789	44.4	47.7	44.4	1.5	4.1	2.0	0.4	42.5	46.4
Norway	2007	583	22.3	35.8	22.3	4.5	34.5	1.5	1.4	20.9	23.4
	2011	456	28.7	32.6	28.7	2.9	33.6	2.2	0.0	28.0	29.5
Russian Federation	2007	640	32.9	44.7	32.9	9.0	11.2	2.1	0.0	30.9	35.1
	2011	633	45.1	40.7	45.1	6.6	5.9	1.7	0.0	45.4	44.7
Singapore	2007	726	55.0	35.7	55.0	3.7	5.2	0.4	0.0	53.0	57.0
	2011	909	55.6	36.1	55.6	4.1	3.9	0.2	0.0	51.4	59.3
Slovak Republic	2007	700	50.9	25.4	50.9	4.2	17.0	2.3	0.2	53.2	48.8
	2011	801	49.8	27.8	49.8	6.2	14.8	0.9	0.5	45.7	53.7
Slovenia	2007	613	42.1	16.4	42.1	4.6	34.4	2.5	0.0	43.4	40.8
	2011	636	51.2	16.8	51.2	4.9	25.7	1.1	0.3	47.3	54.5

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

S03_05 (S041163): Life Science / Applying

Label: Group of animals contains reptiles - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	664	27.1	32.5	27.1	10.1	28.0	2.3	0.1	24.2	29.8
	2011	663	25.4	35.9	25.4	10.4	23.4	4.3	0.7	23.2	27.6
Tunisia	2007	584	21.1	13.3	21.1	16.0	24.7	23.4	1.5	19.8	22.1
	2011	671	24.6	14.4	24.6	14.9	23.2	17.5	5.4	28.1	21.2
United States	2007	1135	57.3	37.8	57.3	1.4	2.6	0.5	0.5	51.1	63.3
	2011	1800	54.8	39.8	54.8	1.0	2.8	1.3	0.3	49.4	60.7
International Avg. (25)	2007	15784	43.5	34.7	43.5	4.9	13.5	3.1	0.3	41.8	45.1
	2011	17567	42.7	37.4	42.7	4.8	11.7	2.8	0.6	40.8	44.6
Alberta, Canada	2007	582	50.3	45.8	50.3	1.0	1.4	1.4	0.1	50.1	50.5
	2011	521	45.2	50.7	45.2	1.4	1.0	0.8	0.8	36.6	53.7
Ontario, Canada	2007	506	49.4	44.5	49.4	1.5	2.4	1.7	0.6	43.8	54.7
	2011	670	53.1	40.4	53.1	1.1	2.5	1.3	1.7	50.3	55.9
Quebec, Canada	2007	531	54.7	39.0	54.7	1.1	2.8	2.4	0.0	51.7	57.8
	2011	584	55.9	37.0	55.9	0.9	3.1	2.4	0.8	53.3	58.2
Dubai, UAE	2007	428	41.8	40.5	41.8	6.1	7.5	3.8	0.4	39.4	43.8
	2011	882	38.4	43.0	38.4	4.6	11.6	1.9	0.4	34.2	42.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S03_06 (S041039): Life Science / Reasoning

Label: Better way to travel around town - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	53.9	16.3	28.9	0.1	0.8	53.9	53.9	53.8
	2011	888	41.6	27.4	29.3	1.0	0.6	41.6	38.1	45.7
Austria	2007	698	62.2	19.6	17.1	1.1	0.0	62.2	64.0	60.5
	2011	669	60.1	21.0	18.0	0.9	0.0	60.1	60.5	59.6
Chinese Taipei	2007	593	70.7	6.4	20.8	1.9	0.2	70.7	70.7	70.7
	2011	612	66.9	16.6	12.2	4.3	0.0	66.9	67.8	66.1
Czech Republic	2007	594	66.8	12.5	20.1	0.7	0.0	66.8	62.0	70.5
	2011	656	63.6	12.2	22.8	1.2	0.2	63.6	55.9	70.3
Denmark	2007	513	49.2	11.9	37.4	0.4	1.1	49.2	54.2	44.2
	2011	560	44.0	25.0	27.6	1.8	1.6	44.0	49.1	38.6
England	2007	615	58.1	14.6	26.4	0.6	0.2	58.1	59.4	56.8
	2011	472	46.7	24.6	26.8	1.5	0.3	46.7	49.2	44.5
Georgia	2007	581	21.1	8.9	65.8	4.2	0.0	21.1	19.0	22.9
	2011	686	28.0	11.1	49.2	10.2	1.6	28.0	24.5	31.8
Germany	2007	748	68.2	15.9	14.8	0.8	0.3	68.2	64.9	70.9
	2011	566	61.8	21.7	15.4	0.6	0.4	61.8	60.3	63.2
Hong Kong SAR	2007	538	50.7	14.6	34.5	0.2	0.0	50.7	55.6	46.4
	2011	573	45.3	12.5	41.6	0.2	0.4	45.3	49.8	41.4
Hungary	2007	580	72.6	5.8	20.9	0.6	0.0	72.6	76.6	69.1
	2011	739	67.5	8.7	21.9	0.6	1.3	67.5	71.2	64.0
Iran, Islamic Rep. of	2007	544	56.1	9.7	32.8	1.4	0.0	56.1	66.8	47.7
	2011	830	60.6	5.4	31.4	0.8	1.8	60.6	60.7	60.4
Italy	2007	635	83.4	4.9	10.3	0.9	0.5	83.4	84.6	82.2
	2011	598	69.9	7.4	21.1	1.0	0.5	69.9	67.6	71.9
Japan	2007	644	64.5	20.1	14.3	0.0	1.0	64.5	63.1	65.9
	2011	638	45.0	20.0	34.7	0.1	0.1	45.0	47.5	42.4
Kuwait	2007	542	16.3	3.0	72.9	5.5	2.4	16.3	18.4	13.9
	2011	594	20.5	2.1	69.2	5.3	3.0	20.5	23.7	16.8
Lithuania	2007	577	53.3	18.3	28.1	0.4	0.0	53.3	53.1	53.5
	2011	669	49.6	13.5	35.9	0.8	0.1	49.6	51.6	47.6
Netherlands	2007	471	69.1	16.5	13.5	0.7	0.2	69.1	67.3	70.9
	2011	461	53.3	30.5	15.9	0.2	0.0	53.3	53.0	54.1
New Zealand	2007	687	41.8	15.9	41.2	0.7	0.4	41.8	40.9	42.8
	2011	789	41.9	22.9	33.1	1.5	0.6	41.9	48.2	35.4
Norway	2007	584	43.4	13.2	41.6	0.4	1.4	43.4	43.0	43.7
	2011	456	49.1	24.3	24.5	1.8	0.3	49.1	50.4	47.7
Russian Federation	2007	640	52.9	6.9	40.3	0.0	0.0	52.9	53.0	52.8
	2011	633	67.4	2.3	30.2	0.1	0.0	67.4	68.3	66.4
Singapore	2007	726	51.1	7.1	41.3	0.5	0.0	51.1	50.8	51.4
	2011	909	54.5	19.8	25.5	0.1	0.1	54.5	53.7	55.1
Slovak Republic	2007	700	66.8	6.0	25.6	0.7	1.0	66.8	63.5	69.8
	2011	801	60.3	8.8	29.6	0.8	0.5	60.3	61.0	59.6
Slovenia	2007	613	80.7	9.1	10.1	0.1	0.0	80.7	81.5	79.9
	2011	638	72.6	13.1	13.7	0.1	0.5	72.6	72.8	72.5

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

S03_06 (S041039): Life Science / Reasoning

Label: Better way to travel around town - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	71.5	10.5	17.6	0.0	0.5	71.5	77.3	66.0
	2011	663	68.2	16.3	13.2	1.1	1.2	68.2	70.1	66.2
Tunisia	2007	584	33.8	9.0	50.8	3.5	3.0	33.8	35.2	32.6
	2011	702	35.5	1.9	53.2	2.2	7.3	35.5	40.8	30.4
United States	2007	1135	41.9	19.5	37.0	1.1	0.5	41.9	38.9	44.9
	2011	1800	43.4	32.5	22.1	1.5	0.5	43.4	41.5	45.5

International Avg. (25)	2007	15793	56.0	11.8	30.6	1.1	0.5	56.0	56.7	55.4
	2011	17602	52.7	16.1	28.7	1.6	0.9	52.7	53.5	51.9

Alberta, Canada	2007	582	58.5	24.7	15.0	1.6	0.1	58.5	54.4	62.7
	2011	519	54.0	30.4	13.6	1.2	0.8	54.0	52.6	55.3
Ontario, Canada	2007	506	56.8	21.6	19.7	1.4	0.6	56.8	62.1	51.7
	2011	670	51.3	29.1	16.6	1.1	2.0	51.3	55.5	47.0
Quebec, Canada	2007	531	54.4	29.0	15.7	0.7	0.1	54.4	54.6	54.3
	2011	584	44.6	38.8	13.8	1.7	1.2	44.6	47.4	42.0
Dubai, UAE	2007	428	33.2	6.9	58.1	1.4	0.4	33.2	36.5	30.2
	2011	882	40.0	11.3	47.4	0.9	0.4	40.0	41.6	38.6

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

S03_07 (S041014): Life Science / Applying
Label: One function of fruit - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	28.3	28.3	23.2	13.6	32.5	1.5	0.8	32.7	24.3
	2011	888	26.4	26.4	29.0	11.0	29.8	3.2	0.6	24.5	28.4
Austria	2007	698	32.2	32.2	14.1	6.0	43.8	4.0	0.0	28.7	35.4
	2011	669	26.9	26.9	17.3	6.0	43.2	6.7	0.0	26.4	27.4
Chinese Taipei	2007	593	35.5	35.5	26.3	5.2	32.1	0.6	0.3	34.4	36.4
	2011	612	40.1	40.1	25.8	3.6	29.4	1.1	0.0	39.0	41.0
Czech Republic	2007	594	31.2	31.2	21.4	7.4	33.8	6.0	0.2	32.3	30.4
	2011	656	31.5	31.5	25.9	7.1	32.4	2.7	0.4	29.2	33.6
Denmark	2007	511	24.4	24.4	27.5	7.9	31.1	8.0	1.1	27.3	21.5
	2011	560	29.4	29.4	23.9	6.3	32.6	6.2	1.6	29.5	29.2
England	2007	615	31.4	31.4	24.7	11.8	30.0	1.9	0.2	33.5	29.4
	2011	472	29.8	29.8	26.0	10.2	31.1	2.5	0.3	24.2	35.0
Georgia	2007	581	19.0	19.0	18.6	13.6	43.0	5.8	0.0	18.6	19.4
	2011	685	20.0	20.0	18.9	10.7	43.4	5.2	1.9	17.7	22.5
Germany	2007	748	28.3	28.3	14.8	5.8	45.7	5.2	0.3	27.4	29.1
	2011	566	31.3	31.3	16.9	5.0	43.3	3.0	0.4	29.8	32.7
Hong Kong SAR	2007	538	33.7	33.7	26.1	8.5	30.8	0.9	0.0	32.3	34.9
	2011	573	32.1	32.1	28.3	10.6	27.9	0.8	0.4	30.9	33.1
Hungary	2007	580	27.6	27.6	26.0	12.0	30.8	3.5	0.0	25.7	29.4
	2011	743	24.8	24.8	25.0	14.1	29.1	5.7	1.4	26.9	22.7
Iran, Islamic Rep. of	2007	544	32.3	32.3	25.1	11.7	27.6	3.2	0.0	32.8	31.9
	2011	830	31.6	31.6	20.2	9.4	34.2	2.6	2.0	29.7	33.4
Italy	2007	628	41.2	41.2	10.6	11.3	33.6	2.8	0.5	42.6	39.9
	2011	598	41.3	41.3	11.6	9.7	34.0	2.8	0.6	45.3	37.9
Japan	2007	644	25.4	25.4	38.8	9.1	25.0	0.7	1.0	22.7	27.9
	2011	638	25.8	25.8	39.2	8.1	26.3	0.6	0.1	25.0	26.6
Kuwait	2007	542	17.1	17.1	20.3	8.9	45.5	5.6	2.6	13.0	21.8
	2011	590	25.0	25.0	24.1	12.1	29.2	7.1	2.6	29.0	20.3
Lithuania	2007	577	23.4	23.4	12.8	7.4	51.2	5.3	0.0	23.3	23.6
	2011	669	28.2	28.2	11.8	13.9	42.6	3.3	0.1	30.1	26.2
Netherlands	2007	471	28.7	28.7	22.3	14.1	33.3	1.4	0.2	26.0	31.6
	2011	461	24.8	24.8	18.5	18.0	36.2	2.5	0.0	21.5	28.3
New Zealand	2007	687	24.7	24.7	33.0	14.4	24.9	2.6	0.4	24.4	25.1
	2011	789	24.6	24.6	34.2	9.3	28.9	2.2	0.8	25.2	24.0
Norway	2007	584	28.3	28.3	8.3	9.3	50.6	2.0	1.4	31.1	26.0
	2011	456	31.5	31.5	7.8	9.3	49.3	1.7	0.4	31.2	31.8
Russian Federation	2007	640	30.2	30.2	35.3	4.8	27.0	2.7	0.0	27.0	33.6
	2011	633	34.6	34.6	14.1	7.2	40.8	3.3	0.0	34.2	35.0
Singapore	2007	726	50.3	50.3	22.8	8.1	18.5	0.3	0.0	52.2	48.3
	2011	909	60.7	60.7	16.7	8.1	14.1	0.3	0.1	60.0	61.4
Slovak Republic	2007	700	36.1	36.1	25.4	9.6	22.5	5.4	1.0	37.8	34.5
	2011	801	41.3	41.3	26.6	8.5	20.8	2.3	0.5	43.1	39.5
Slovenia	2007	613	30.2	30.2	26.2	10.9	29.5	3.1	0.0	28.5	32.0
	2011	635	38.1	38.1	23.4	13.0	22.8	2.2	0.5	38.4	38.0

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

S03_07 (S041014): Life Science / Applying
Label: One function of fruit - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	17.9	17.9	35.4	5.2	39.0	2.0	0.5	15.8	19.8
	2011	663	22.0	22.0	30.7	4.7	38.6	2.7	1.4	21.5	22.4
Tunisia	2007	584	15.7	15.7	29.7	12.8	19.6	18.5	3.6	16.6	15.1
	2011	688	14.5	14.5	30.0	13.2	22.1	11.9	8.3	14.5	14.6
United States	2007	1135	39.0	39.0	23.9	8.8	26.4	1.4	0.5	39.1	38.9
	2011	1800	41.0	41.0	27.3	7.9	21.6	1.6	0.5	38.3	43.9
International Avg. (25)	2007	15784	29.3	29.3	23.7	9.5	33.1	3.8	0.6	29.0	29.6
	2011	17584	31.1	31.1	22.9	9.5	32.1	3.4	1.0	30.6	31.6
Alberta, Canada	2007	582	33.8	33.8	29.1	8.0	26.5	2.4	0.2	30.9	36.8
	2011	521	26.6	26.6	32.8	11.9	24.8	2.9	1.0	22.9	30.3
Ontario, Canada	2007	506	22.9	22.9	28.4	11.7	32.6	3.7	0.6	23.8	22.1
	2011	670	29.7	29.7	29.6	10.8	24.7	3.2	2.1	28.6	30.8
Quebec, Canada	2007	531	17.8	17.8	15.4	9.0	53.4	4.2	0.1	17.8	17.8
	2011	584	22.0	22.0	18.5	7.3	47.7	3.3	1.2	22.5	21.6
Dubai, UAE	2007	428	35.7	35.7	23.7	8.4	27.3	4.5	0.4	35.4	35.9
	2011	882	35.1	35.1	23.1	8.7	30.3	2.4	0.4	34.5	35.6

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

S03_08 (S041181): Life Science / Applying
Label: Influenza passing between people - Points: 1

COUNTRY	YEAR	N	10 %	11 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	36.7	10.9	2.8	9.6	19.3	19.6	1.0	50.4	49.1	51.5
	2011	888	34.1	9.4	3.5	7.8	27.7	16.3	1.2	47.1	51.1	42.6
Austria	2007	698	42.4	12.2	9.1	13.5	9.9	12.9	0.1	63.6	61.7	65.5
	2011	669	39.2	20.5	9.9	8.2	9.7	12.6	0.0	69.5	70.8	68.0
Chinese Taipei	2007	593	31.8	15.8	23.7	8.5	12.0	8.0	0.3	71.2	71.2	71.3
	2011	612	35.7	15.8	15.2	8.2	16.4	8.5	0.2	66.7	70.3	63.5
Czech Republic	2007	594	53.3	12.8	8.1	13.8	5.9	5.9	0.2	74.1	74.2	74.1
	2011	656	54.6	12.3	6.4	12.3	7.6	6.2	0.6	73.3	70.0	76.2
Denmark	2007	513	51.7	15.0	2.3	4.8	14.5	9.4	2.3	69.0	74.1	63.8
	2011	560	44.6	19.7	4.5	8.0	14.0	6.7	2.5	68.8	72.2	65.2
England	2007	615	44.0	17.2	5.1	12.7	13.3	7.4	0.4	66.3	69.6	62.9
	2011	472	54.3	15.2	3.6	9.2	10.9	6.2	0.6	73.2	80.4	66.6
Georgia	2007	581	12.4	19.4	18.3	19.6	13.7	15.1	1.5	50.1	49.4	50.7
	2011	685	36.3	22.7	8.2	12.7	8.5	9.0	2.5	67.2	68.9	65.3
Germany	2007	748	41.9	20.9	3.5	10.1	12.7	10.5	0.5	66.3	66.1	66.5
	2011	566	41.8	23.8	1.9	8.0	13.1	10.6	0.8	67.4	63.9	70.7
Hong Kong SAR	2007	538	14.9	8.3	50.1	3.8	15.1	7.9	0.0	73.3	80.6	67.1
	2011	573	13.0	9.0	37.6	3.1	27.3	9.7	0.4	59.6	65.1	54.7
Hungary	2007	580	62.3	6.8	4.4	11.3	10.3	4.6	0.3	73.5	74.0	73.1
	2011	742	54.1	14.3	4.7	9.5	10.3	5.1	2.0	73.1	76.3	70.1
Iran, Islamic Rep. of	2007	544	17.0	19.3	5.6	12.6	19.3	25.4	0.6	42.0	50.4	35.4
	2011	830	18.6	34.2	2.5	11.4	12.8	17.9	2.5	55.4	57.5	53.2
Italy	2007	635	35.2	11.0	3.1	29.5	8.8	11.4	1.0	49.3	46.4	51.9
	2011	598	20.9	13.5	4.2	24.0	21.8	14.8	0.8	38.6	36.9	40.1
Japan	2007	644	52.2	6.5	10.9	11.7	14.6	3.1	1.0	69.6	69.0	70.2
	2011	638	58.2	7.7	12.3	5.8	13.8	1.9	0.3	78.2	76.7	79.6
Kuwait	2007	542	13.3	1.7	4.9	6.3	29.5	40.3	3.9	19.9	20.4	19.4
	2011	594	15.6	7.9	2.9	7.5	32.2	30.3	3.5	26.4	30.2	22.2
Lithuania	2007	577	55.1	19.4	3.0	13.8	5.2	3.5	0.0	77.5	74.0	81.0
	2011	669	57.9	20.7	2.4	6.1	10.4	2.1	0.4	81.0	84.6	77.3
Netherlands	2007	471	58.7	14.9	1.4	8.7	14.7	1.5	0.2	74.9	75.6	74.1
	2011	461	53.0	16.1	2.7	9.9	16.2	2.1	0.0	71.7	74.9	67.7
New Zealand	2007	687	50.3	15.9	5.0	6.5	13.5	8.4	0.5	71.2	73.7	68.6
	2011	789	51.6	13.9	2.5	8.1	18.2	4.3	1.4	68.0	72.1	63.7
Norway	2007	584	44.9	8.9	5.2	6.4	18.4	14.3	1.9	58.9	59.4	58.5
	2011	456	46.3	12.6	0.9	9.9	19.9	9.8	0.6	59.8	65.0	54.1
Russian Federation	2007	640	61.2	6.0	11.1	7.0	9.8	4.3	0.7	78.3	81.9	74.4
	2011	633	60.4	4.1	10.9	4.1	14.8	5.6	0.0	75.5	78.1	72.7
Singapore	2007	726	40.5	14.5	6.6	14.1	20.3	3.9	0.1	61.6	63.9	59.4
	2011	909	41.3	11.1	5.3	9.5	30.0	2.7	0.1	57.7	57.6	57.8
Slovak Republic	2007	700	58.3	8.8	8.6	13.8	4.0	5.6	1.0	75.7	77.4	74.0
	2011	801	56.6	11.6	8.0	9.4	9.0	4.4	1.0	76.2	76.3	76.1
Slovenia	2007	613	48.8	10.1	4.0	23.9	8.8	4.0	0.3	62.9	61.9	63.9
	2011	638	44.6	12.2	3.1	20.5	11.1	7.9	0.6	59.9	57.6	61.9

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

S03_08 (S041181): Life Science / Applying
Label: Influenza passing between people - Points: 1

COUNTRY	YEAR	N	10 %	11 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	66.6	6.2	2.1	5.5	15.7	3.4	0.5	74.9	79.5	70.6
	2011	663	60.7	9.8	13.1	4.2	5.6	5.2	1.5	83.5	86.7	80.2
Tunisia	2007	584	9.9	15.8	3.3	16.3	35.7	14.2	4.8	29.0	32.4	26.2
	2011	702	12.9	13.6	5.8	17.0	28.7	12.2	9.8	32.3	32.9	31.7
United States	2007	1135	23.7	20.9	4.8	6.8	31.9	10.9	1.0	49.4	47.5	51.2
	2011	1800	27.6	24.3	2.0	6.3	31.9	6.8	1.2	53.9	53.8	54.1

International Avg. (25)	2007	15793	41.1	12.8	8.3	11.6	15.1	10.2	1.0	62.1	63.3	61.0
	2011	17604	41.4	15.1	7.0	9.6	16.9	8.8	1.4	63.4	65.2	61.4

Alberta, Canada	2007	582	32.7	16.8	6.8	9.1	17.1	17.1	0.5	56.3	58.0	54.5
	2011	521	31.5	18.3	2.6	6.0	27.2	12.4	1.9	52.5	51.0	54.0
Ontario, Canada	2007	506	34.3	15.9	7.2	9.1	14.9	17.7	1.0	57.3	56.1	58.5
	2011	669	30.4	15.6	2.2	10.2	24.4	13.8	3.4	48.3	53.9	42.5
Quebec, Canada	2007	531	51.4	23.0	6.1	2.4	9.4	7.2	0.6	80.5	84.4	76.4
	2011	584	46.9	23.0	1.8	3.1	19.7	4.1	1.3	71.8	75.5	68.3
Dubai, UAE	2007	428	20.4	6.6	6.1	9.8	24.9	31.1	1.1	33.1	36.6	29.7
	2011	882	26.2	10.9	2.7	13.1	24.2	22.2	0.7	39.8	44.3	35.7

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

S03_09 (S041174): Life Science / Applying
Label: Migration of birds - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	12.4	11.3	46.6	28.2	1.5	23.7	24.4	23.1
	2011	888	10.6	8.0	58.4	21.7	1.4	18.6	17.7	19.5
Austria	2007	698	17.3	63.5	7.9	11.3	0.1	80.7	79.2	82.2
	2011	669	15.8	64.8	6.8	12.6	0.0	80.6	82.3	78.6
Chinese Taipei	2007	593	6.8	10.8	54.4	27.8	0.3	17.5	14.3	20.2
	2011	612	9.4	17.5	53.6	19.3	0.2	26.9	23.6	29.9
Czech Republic	2007	594	13.4	53.1	18.1	15.1	0.2	66.5	68.2	65.2
	2011	656	19.3	44.2	20.9	14.6	1.0	63.5	66.7	60.7
Denmark	2007	513	16.6	28.7	29.2	23.0	2.6	45.3	49.9	40.6
	2011	560	16.6	28.3	30.7	22.0	2.5	44.9	44.1	45.6
England	2007	615	8.3	9.4	49.2	32.5	0.6	17.7	17.7	17.8
	2011	472	11.0	8.2	46.7	32.8	1.3	19.2	15.5	22.6
Georgia	2007	581	6.9	9.6	38.7	42.7	2.2	16.4	16.6	16.2
	2011	685	10.0	22.7	31.1	32.1	4.1	32.7	34.2	31.0
Germany	2007	748	6.7	19.4	43.9	29.5	0.5	26.2	25.8	26.5
	2011	566	7.9	16.4	44.3	30.5	0.8	24.3	25.8	23.1
Hong Kong SAR	2007	538	8.0	14.8	56.3	20.9	0.0	22.8	17.5	27.3
	2011	573	3.0	5.8	69.9	20.8	0.5	8.8	5.3	11.9
Hungary	2007	580	18.3	35.7	30.1	15.4	0.6	54.0	54.0	54.0
	2011	742	19.6	35.8	25.7	15.7	3.1	55.5	56.3	54.7
Iran, Islamic Rep. of	2007	544	8.3	18.5	39.8	32.5	0.9	26.7	32.7	22.0
	2011	830	13.1	21.4	33.5	28.5	3.5	34.5	35.3	33.8
Italy	2007	635	16.1	39.3	19.6	23.6	1.4	55.4	55.3	55.5
	2011	596	16.4	36.0	23.1	23.4	1.0	52.4	52.1	52.6
Japan	2007	644	16.4	34.2	38.2	10.0	1.2	50.6	47.0	54.0
	2011	638	10.8	27.5	51.8	9.5	0.3	38.3	39.1	37.5
Kuwait	2007	542	7.9	4.8	33.8	47.8	5.8	12.6	16.8	8.1
	2011	593	8.7	3.3	44.0	40.2	3.8	12.0	13.4	10.4
Lithuania	2007	577	16.0	24.5	29.7	29.8	0.0	40.5	40.4	40.6
	2011	669	14.4	30.2	31.6	23.4	0.4	44.6	44.2	45.1
Netherlands	2007	471	9.0	12.4	72.4	6.1	0.2	21.4	22.2	20.5
	2011	461	10.6	13.4	71.2	4.8	0.0	24.0	21.7	26.8
New Zealand	2007	687	11.1	10.4	49.2	28.7	0.6	21.5	18.4	24.6
	2011	789	10.6	12.5	58.0	17.2	1.6	23.1	25.7	20.4
Norway	2007	584	9.1	22.0	41.3	25.3	2.2	31.2	30.9	31.4
	2011	456	8.4	22.1	39.6	28.5	1.4	30.5	28.2	33.0
Russian Federation	2007	640	27.7	45.6	18.1	8.0	0.7	73.2	72.9	73.6
	2011	633	22.5	44.8	24.5	8.1	0.1	67.3	70.6	63.7
Singapore	2007	726	17.5	51.5	27.5	3.2	0.3	69.0	71.8	66.2
	2011	909	25.2	45.1	27.5	2.1	0.1	70.3	72.8	68.1
Slovak Republic	2007	700	19.9	56.4	10.0	12.7	1.0	76.3	78.8	74.0
	2011	801	18.2	52.1	17.1	11.6	1.0	70.3	70.2	70.5
Slovenia	2007	613	19.9	38.7	30.6	10.4	0.3	58.6	61.5	55.6
	2011	638	22.1	33.9	26.5	16.7	0.8	56.0	58.2	54.1

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

S03_09 (S041174): Life Science / Applying
Label: Migration of birds - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	21.7	41.7	21.1	15.0	0.5	63.4	68.0	59.1
	2011	663	27.2	36.6	22.2	12.1	1.8	63.8	66.7	60.8
Tunisia	2007	584	3.8	6.2	47.5	36.8	5.7	10.0	11.9	8.4
	2011	702	7.3	8.7	48.3	25.4	10.3	16.0	19.5	12.6
United States	2007	1135	11.7	29.2	48.5	9.3	1.3	40.9	37.6	44.0
	2011	1800	14.5	32.8	45.7	5.6	1.4	47.3	47.0	47.6
International Avg. (25)	2007	15793	13.2	27.7	36.1	21.8	1.2	40.9	41.3	40.4
	2011	17601	14.1	26.9	38.1	19.2	1.7	41.0	41.5	40.6
Alberta, Canada	2007	582	11.3	35.1	35.6	16.7	1.3	46.4	44.4	48.5
	2011	521	11.3	28.9	45.6	12.3	1.9	40.2	43.9	36.6
Ontario, Canada	2007	506	14.8	31.5	30.6	22.2	1.0	46.2	43.3	49.0
	2011	669	15.0	27.0	39.3	15.3	3.5	42.0	43.0	40.9
Quebec, Canada	2007	531	14.3	20.8	34.8	29.5	0.6	35.1	35.5	34.8
	2011	584	16.0	21.3	42.6	18.6	1.6	37.2	33.8	40.4
Dubai, UAE	2007	428	7.2	13.6	40.9	37.0	1.3	20.8	26.0	16.0
	2011	882	8.3	10.8	51.0	28.8	1.1	19.1	23.1	15.3

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

S03_10 (S041049): Physical Science / Reasoning
Label: Properties of two materials - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	47.0	17.7	21.4	47.0	7.9	4.4	1.6	49.7	44.6
	2011	888	43.3	19.0	21.4	43.3	10.7	4.0	1.5	40.5	46.6
Austria	2007	698	52.1	15.9	15.8	52.1	9.3	6.6	0.3	50.7	53.3
	2011	669	49.5	15.4	17.0	49.5	10.1	7.8	0.1	47.8	51.4
Chinese Taipei	2007	593	78.0	5.4	10.6	78.0	4.7	1.0	0.3	83.0	74.0
	2011	612	80.8	4.8	9.5	80.8	4.4	0.2	0.3	83.1	78.7
Czech Republic	2007	594	48.3	16.6	16.0	48.3	7.2	11.2	0.6	48.6	48.2
	2011	656	51.1	14.6	14.2	51.1	9.9	8.5	1.7	50.1	51.9
Denmark	2007	511	49.0	15.2	12.0	49.0	8.4	12.0	3.4	49.1	49.0
	2011	560	45.6	18.2	12.6	45.6	6.5	13.3	3.8	46.7	44.4
England	2007	615	48.7	19.5	19.0	48.7	9.4	2.8	0.6	50.7	46.6
	2011	472	47.0	15.9	20.5	47.0	10.8	3.8	2.0	44.4	49.4
Georgia	2007	581	28.6	19.8	16.9	28.6	13.6	17.8	3.2	24.1	32.5
	2011	687	30.2	19.7	21.7	30.2	10.9	12.9	4.6	31.3	29.0
Germany	2007	748	55.3	15.6	14.5	55.3	7.4	6.2	1.0	52.0	58.1
	2011	566	49.6	14.8	19.1	49.6	10.8	4.7	1.0	45.9	52.9
Hong Kong SAR	2007	538	72.9	8.4	15.2	72.9	2.7	0.8	0.0	69.9	75.5
	2011	573	65.9	8.3	19.9	65.9	4.2	1.0	0.7	65.7	66.1
Hungary	2007	580	64.1	13.1	12.2	64.1	6.0	3.7	0.8	60.8	67.2
	2011	743	58.2	11.5	15.0	58.2	7.3	4.4	3.6	58.7	57.7
Iran, Islamic Rep. of	2007	544	35.3	16.7	21.9	35.3	15.5	9.8	0.9	40.2	31.3
	2011	830	41.4	14.3	19.9	41.4	14.8	5.2	4.5	41.9	40.8
Italy	2007	633	55.8	16.1	15.3	55.8	5.8	5.3	1.6	55.6	56.0
	2011	598	48.2	16.8	18.2	48.2	8.4	6.5	1.9	47.9	48.5
Japan	2007	644	75.0	6.6	9.8	75.0	6.4	1.0	1.2	72.1	77.8
	2011	638	74.1	8.4	10.9	74.1	5.0	0.9	0.7	73.7	74.5
Kuwait	2007	542	28.1	19.7	24.4	28.1	11.6	9.8	6.4	27.9	28.3
	2011	586	31.6	17.6	26.0	31.6	12.8	8.1	3.9	30.9	32.3
Lithuania	2007	577	43.1	20.6	22.0	43.1	5.8	8.6	0.0	40.5	45.8
	2011	669	48.8	20.0	20.7	48.8	5.9	4.1	0.5	51.5	46.1
Netherlands	2007	471	58.5	15.1	17.9	58.5	5.7	2.6	0.2	60.3	56.5
	2011	461	62.0	11.0	17.6	62.0	6.6	2.7	0.0	61.2	63.4
New Zealand	2007	687	42.7	19.2	22.2	42.7	9.3	6.0	0.6	43.4	41.9
	2011	788	39.8	19.1	23.7	39.8	11.9	3.4	2.2	41.8	37.6
Norway	2007	584	39.8	21.6	18.7	39.8	8.7	8.4	2.8	36.2	42.9
	2011	456	35.6	25.6	20.0	35.6	8.6	8.1	2.0	30.6	41.1
Russian Federation	2007	640	66.3	7.1	14.4	66.3	6.8	4.6	0.7	69.8	62.7
	2011	633	67.1	11.3	13.4	67.1	4.4	3.5	0.3	69.4	64.6
Singapore	2007	726	74.3	5.0	16.6	74.3	3.5	0.0	0.5	75.0	73.6
	2011	909	78.0	4.5	13.4	78.0	3.4	0.7	0.1	80.8	75.4
Slovak Republic	2007	700	50.1	10.0	17.2	50.1	12.9	8.3	1.5	50.4	49.8
	2011	801	58.5	10.7	14.5	58.5	12.2	3.1	1.0	59.8	57.3
Slovenia	2007	613	55.0	13.5	15.2	55.0	11.9	3.9	0.5	57.4	52.5
	2011	634	50.6	16.2	17.0	50.6	11.0	4.3	0.8	49.4	51.6

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

S03_10 (S041049): Physical Science / Reasoning
Label: Properties of two materials - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	53.0	13.6	17.6	53.0	6.1	9.0	0.7	52.6	53.5
	2011	663	50.2	14.6	18.7	50.2	6.1	7.9	2.4	48.8	51.6
Tunisia	2007	584	21.9	9.5	23.3	21.9	15.3	21.9	8.1	20.5	23.1
	2011	685	25.8	9.1	28.1	25.8	12.6	12.0	12.4	23.9	27.7
United States	2007	1135	47.0	17.3	21.1	47.0	10.7	2.0	1.9	44.7	49.2
	2011	1800	50.0	14.1	21.7	50.0	10.2	2.2	1.8	51.0	49.0
International Avg. (25)	2007	15789	51.6	14.4	17.3	51.6	8.5	6.7	1.6	51.4	51.8
	2011	17577	51.3	14.2	18.2	51.3	8.8	5.3	2.2	51.1	51.6
Alberta, Canada	2007	582	45.4	18.0	19.7	45.4	12.8	2.6	1.4	49.2	41.5
	2011	521	43.9	21.7	19.5	43.9	9.6	3.0	2.3	43.9	43.8
Ontario, Canada	2007	506	45.6	14.3	22.9	45.6	10.4	5.6	1.2	45.2	46.0
	2011	670	44.2	15.8	21.5	44.2	11.2	3.0	4.4	44.2	44.1
Quebec, Canada	2007	531	46.6	16.9	16.9	46.6	13.4	5.1	1.1	42.9	50.5
	2011	584	42.5	19.9	17.7	42.5	12.0	5.8	2.1	39.5	45.3
Dubai, UAE	2007	428	43.4	18.9	19.4	43.4	10.4	6.1	1.7	49.2	38.2
	2011	882	43.5	16.7	19.9	43.5	14.4	4.3	1.1	44.2	43.0

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

S03_11 (S041208): Earth Science / Knowing

Label: How often Earth rotates on axis - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	42.8	12.8	42.8	10.3	29.4	2.4	2.2	43.1	42.5
	2011	888	43.9	11.4	43.9	11.6	28.0	3.6	1.5	42.0	46.1
Austria	2007	698	55.7	6.8	55.7	5.5	30.4	1.3	0.3	55.4	56.0
	2011	669	57.0	5.9	57.0	5.2	27.8	3.4	0.6	54.8	59.4
Chinese Taipei	2007	593	46.3	8.9	46.3	9.5	34.4	0.5	0.3	40.1	51.4
	2011	612	46.5	8.0	46.5	9.4	35.5	0.2	0.3	42.4	50.3
Czech Republic	2007	594	51.6	3.9	51.6	6.1	36.0	1.6	0.8	47.5	54.7
	2011	656	51.5	4.4	51.5	4.4	36.0	1.7	2.0	53.1	50.1
Denmark	2007	511	38.8	8.1	38.8	13.1	31.3	4.5	4.3	35.9	41.7
	2011	560	47.5	7.3	47.5	8.9	26.9	5.5	4.0	47.1	47.9
England	2007	615	58.7	6.5	58.7	8.6	24.2	1.2	0.9	61.4	55.9
	2011	472	49.0	9.1	49.0	8.7	27.8	2.6	2.9	46.2	51.5
Georgia	2007	581	50.3	8.6	50.3	4.2	31.6	1.9	3.5	44.7	55.1
	2011	687	64.4	6.9	64.4	3.1	17.7	3.1	4.8	66.4	62.1
Germany	2007	748	54.2	8.3	54.2	8.2	26.2	2.1	1.1	47.1	60.1
	2011	566	54.4	9.1	54.4	6.1	26.4	2.8	1.2	48.8	59.4
Hong Kong SAR	2007	538	49.1	11.2	49.1	6.5	32.3	0.9	0.0	48.9	49.3
	2011	573	46.3	12.8	46.3	7.8	30.3	2.2	0.7	40.8	51.2
Hungary	2007	580	61.1	6.9	61.1	2.3	27.7	1.0	0.9	57.7	64.2
	2011	743	55.2	5.8	55.2	5.3	26.8	2.0	4.8	51.8	58.4
Iran, Islamic Rep. of	2007	544	50.1	12.0	50.1	6.5	26.4	4.0	0.9	52.1	48.6
	2011	830	62.7	4.6	62.7	5.8	20.5	1.5	4.9	61.0	64.3
Italy	2007	635	60.4	12.0	60.4	3.1	20.7	1.8	1.9	59.9	61.0
	2011	598	53.4	14.7	53.4	4.1	21.8	3.3	2.7	51.4	55.0
Japan	2007	644	63.3	6.0	63.3	5.6	23.3	0.5	1.2	57.9	68.5
	2011	638	58.3	6.3	58.3	4.9	29.3	0.3	0.9	53.8	63.0
Kuwait	2007	542	29.5	9.8	29.5	22.4	27.1	4.5	6.5	29.4	29.7
	2011	588	37.5	10.3	37.5	20.2	22.5	5.5	4.0	39.2	35.5
Lithuania	2007	577	65.3	1.2	65.3	4.9	27.8	0.7	0.2	66.3	64.2
	2011	669	67.2	2.0	67.2	4.2	25.1	0.9	0.6	66.6	67.8
Netherlands	2007	471	48.0	8.1	48.0	11.5	31.7	0.5	0.2	49.0	46.9
	2011	461	52.2	6.0	52.2	11.4	28.1	2.0	0.2	47.8	58.0
New Zealand	2007	687	46.0	15.0	46.0	10.2	26.1	2.1	0.8	43.6	48.4
	2011	788	44.0	19.0	44.0	11.2	21.4	1.7	2.6	40.1	48.1
Norway	2007	584	42.6	7.4	42.6	9.3	35.3	1.9	3.5	38.7	45.9
	2011	456	46.6	7.9	46.6	10.5	28.2	3.5	3.3	43.6	49.8
Russian Federation	2007	640	59.2	7.3	59.2	5.3	26.3	0.8	1.0	59.2	59.1
	2011	633	56.9	10.4	56.9	4.1	26.6	1.6	0.4	56.1	57.7
Singapore	2007	726	43.1	19.1	43.1	7.0	30.0	0.2	0.6	40.7	45.4
	2011	909	44.7	24.2	44.7	8.0	22.2	0.9	0.1	43.0	46.2
Slovak Republic	2007	700	67.7	1.1	67.7	4.1	24.6	1.0	1.5	66.6	68.6
	2011	801	69.6	2.3	69.6	2.6	23.5	0.8	1.2	72.4	66.8
Slovenia	2007	613	65.9	4.2	65.9	4.5	24.3	0.6	0.5	62.4	69.6
	2011	637	67.4	6.7	67.4	2.7	21.0	0.9	1.3	66.4	68.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S03_11 (S041208): Earth Science / Knowing

Label: How often Earth rotates on axis - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	40.3	6.6	40.3	10.5	40.4	0.6	1.6	34.0	46.3
	2011	663	42.3	3.3	42.3	8.7	39.6	2.4	3.6	41.3	43.3
Tunisia	2007	584	33.0	8.1	33.0	19.6	20.7	10.2	8.4	27.6	37.5
	2011	697	35.8	6.7	35.8	14.1	21.9	7.9	13.6	35.8	35.8
United States	2007	1135	51.7	9.4	51.7	7.8	27.5	1.5	2.2	48.0	55.2
	2011	1800	52.4	10.7	52.4	7.1	24.2	3.2	2.3	50.5	54.4

International Avg. (25)	2007	15791	51.0	8.4	51.0	8.3	28.6	1.9	1.8	48.7	53.0
	2011	17594	52.3	8.6	52.3	7.6	26.4	2.5	2.6	50.5	54.0

Alberta, Canada	2007	582	41.0	12.9	41.0	9.7	32.9	1.8	1.6	40.8	41.3
	2011	521	44.1	15.6	44.1	5.9	28.2	3.4	2.9	41.6	46.6
Ontario, Canada	2007	506	47.5	13.9	47.5	9.0	24.1	4.0	1.5	42.3	52.4
	2011	670	40.8	15.1	40.8	8.9	27.6	2.5	5.1	36.8	44.9
Quebec, Canada	2007	531	49.0	12.2	49.0	6.4	28.0	3.0	1.4	45.3	53.0
	2011	584	50.5	14.1	50.5	6.4	23.0	3.2	2.8	50.3	50.8
Dubai, UAE	2007	428	50.5	9.3	50.5	10.5	25.4	2.4	1.8	50.7	50.3
	2011	882	59.4	9.8	59.4	6.8	20.8	2.1	1.2	59.1	59.7

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

S03_12 (S041060): Physical Science / Applying
Label: Identifies gas - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	27.9	19.8	22.8	17.5	1.6	8.3	2.2	27.9	27.8	28.0
	2011	888	24.1	23.0	20.1	23.6	1.7	5.9	1.6	24.1	24.9	23.3
Austria	2007	698	19.6	18.8	22.7	23.3	1.7	13.6	0.3	19.6	16.9	22.2
	2011	669	24.0	15.9	21.7	20.7	3.1	13.8	0.7	24.0	23.5	24.6
Chinese Taipei	2007	593	21.5	19.3	19.8	36.2	0.2	2.8	0.3	21.5	20.7	22.2
	2011	612	22.4	17.9	19.6	37.7	0.1	2.0	0.3	22.4	23.3	21.6
Czech Republic	2007	594	22.2	27.1	11.3	18.9	1.2	18.5	0.9	22.2	19.9	23.9
	2011	656	20.7	25.9	14.2	20.3	3.7	12.8	2.3	20.7	16.2	24.6
Denmark	2007	513	15.4	16.9	16.5	26.5	4.8	15.8	4.2	15.4	12.8	17.9
	2011	560	16.5	20.3	16.3	19.3	9.0	14.7	4.0	16.5	14.5	18.7
England	2007	615	28.4	18.0	21.6	21.3	1.8	8.0	0.9	28.4	33.2	23.5
	2011	472	30.0	19.9	22.6	18.0	1.0	5.4	3.1	30.0	36.1	24.4
Georgia	2007	581	3.8	26.5	10.1	16.4	6.9	32.6	3.7	3.8	4.6	3.0
	2011	687	3.9	24.1	14.0	17.4	13.0	22.9	4.8	3.9	3.4	4.4
Germany	2007	748	20.8	21.0	18.0	24.7	1.6	12.9	1.1	20.8	19.0	22.2
	2011	566	15.8	21.7	22.9	25.5	1.1	11.7	1.3	15.8	13.3	18.0
Hong Kong SAR	2007	538	24.3	24.4	21.9	26.3	1.0	2.1	0.0	24.3	23.7	24.9
	2011	573	17.6	28.9	19.4	29.0	3.2	1.1	0.8	17.6	17.6	17.7
Hungary	2007	580	20.7	22.3	20.6	23.2	4.5	7.8	0.9	20.7	23.9	17.8
	2011	741	20.6	22.2	19.3	22.4	3.4	7.2	4.9	20.6	19.5	21.6
Iran, Islamic Rep. of	2007	544	13.3	29.7	19.8	19.2	4.0	12.3	1.6	13.3	17.6	9.9
	2011	830	13.8	32.7	15.2	19.1	2.7	11.3	5.1	13.8	14.6	13.1
Italy	2007	634	34.8	21.6	11.7	13.8	2.6	13.5	2.0	34.8	33.6	35.9
	2011	598	33.3	18.4	15.6	16.5	2.2	11.0	3.0	33.3	32.9	33.7
Japan	2007	644	18.1	20.7	20.5	35.0	0.8	3.7	1.3	18.1	15.0	21.0
	2011	638	15.9	19.3	18.7	41.1	1.1	3.1	0.9	15.9	17.2	14.5
Kuwait	2007	542	0.4	38.1	23.0	12.9	5.6	13.1	6.9	0.4	0.7	0.0
	2011	594	5.0	37.1	21.4	15.9	8.9	6.9	4.8	5.0	6.3	3.5
Lithuania	2007	.	.	.	.	.	.	.	.	.	.	.
	2011	.	.	.	.	.	.	.	.	.	.	.
Netherlands	2007	471	15.5	20.2	27.7	29.3	2.6	4.5	0.2	15.5	11.7	19.6
	2011	461	22.3	20.3	21.4	28.3	2.9	4.5	0.2	22.3	22.1	22.7
New Zealand	2007	687	19.1	22.7	21.1	20.6	4.5	11.2	0.8	19.1	19.1	19.2
	2011	789	19.6	24.6	25.4	19.6	2.2	5.9	2.7	19.6	19.9	19.3
Norway	2007	584	10.2	30.1	24.7	14.6	6.0	10.6	3.8	10.2	14.0	7.0
	2011	456	10.9	26.2	23.5	23.7	0.9	11.2	3.7	10.9	9.9	11.9
Russian Federation	2007	640	46.8	18.5	10.8	11.9	2.1	8.6	1.3	46.8	48.0	45.4
	2011	633	40.7	23.1	11.0	17.7	1.4	5.6	0.4	40.7	43.4	37.7
Singapore	2007	726	35.8	12.6	15.5	33.2	1.2	1.0	0.6	35.8	35.9	35.8
	2011	909	30.3	22.8	14.7	30.8	0.6	0.8	0.1	30.3	32.1	28.6
Slovak Republic	2007	700	21.1	21.7	15.3	22.7	2.9	14.5	1.9	21.1	18.3	23.7
	2011	801	14.5	29.0	15.9	24.4	2.8	12.2	1.2	14.5	13.4	15.6
Slovenia	2007	613	24.0	19.8	20.0	26.8	3.1	5.8	0.5	24.0	24.6	23.3
	2011	638	20.1	21.8	20.8	23.3	4.7	7.9	1.4	20.1	17.9	21.9

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

S03_12 (S041060): Physical Science / Applying
Label: Identifies gas - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	18.2	26.0	21.9	15.7	2.6	13.7	1.9	18.2	17.6	18.9
	2011	663	23.7	23.4	17.5	20.1	1.5	10.1	3.7	23.7	23.9	23.5
Tunisia	2007	584	5.3	19.9	17.6	10.4	21.7	16.4	8.7	5.3	5.3	5.3
	2011	702	5.7	21.7	22.3	12.8	14.5	9.3	13.7	5.7	6.1	5.3
United States	2007	1135	26.6	20.3	20.3	25.5	1.9	3.3	2.2	26.6	23.7	29.3
	2011	1800	28.8	19.0	19.1	24.0	1.5	4.8	2.7	28.8	27.6	30.1
International Avg. (24)	2007	15215	20.6	22.3	19.0	21.9	3.6	10.6	2.0	20.6	20.3	20.8
	2011	16936	20.0	23.3	18.9	23.0	3.6	8.4	2.8	20.0	20.0	20.0
Alberta, Canada	2007	582	22.0	21.3	20.6	24.0	2.7	7.8	1.6	22.0	18.1	26.0
	2011	521	18.7	24.2	17.9	27.2	3.0	5.9	3.1	18.7	17.9	19.5
Ontario, Canada	2007	506	26.6	19.9	20.7	21.1	2.2	8.0	1.5	26.6	26.1	27.0
	2011	670	17.3	21.6	19.0	24.6	3.1	9.3	5.1	17.3	17.7	16.9
Quebec, Canada	2007	531	21.1	15.4	19.6	21.9	5.5	15.1	1.4	21.1	19.5	22.7
	2011	584	16.1	22.5	20.9	23.6	4.0	10.1	2.8	16.1	12.9	19.0
Dubai, UAE	2007	428	10.3	27.0	21.5	20.3	7.4	11.6	1.9	10.3	10.9	9.9
	2011	882	20.1	24.9	23.4	21.5	3.3	5.5	1.3	20.1	19.9	20.3

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

S03_l3A (S041201A): Earth Science / Applying
Label: Advantage to farming by a river - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	55.6	25.3	13.4	5.7	55.6	50.5	60.3
	2011	888	43.7	39.0	14.4	2.9	43.7	40.1	47.8
Austria	2007	698	55.8	20.8	19.3	4.1	55.8	54.2	57.3
	2011	669	53.5	22.0	20.9	3.7	53.5	53.9	53.1
Chinese Taipei	2007	593	57.2	34.2	8.1	0.5	57.2	56.1	58.1
	2011	612	61.0	30.2	8.1	0.8	61.0	65.9	56.4
Czech Republic	2007	594	54.7	27.0	13.3	5.0	54.7	49.2	59.0
	2011	656	58.8	26.7	10.6	3.8	58.8	56.7	60.7
Denmark	2007	513	56.9	23.4	12.0	7.7	56.9	55.1	58.6
	2011	560	51.5	27.9	13.4	7.2	51.5	55.2	47.6
England	2007	615	49.1	38.1	9.1	3.7	49.1	48.9	49.2
	2011	472	52.0	29.1	14.3	4.6	52.0	52.7	51.2
Georgia	2007	581	24.9	36.1	27.2	11.8	24.9	23.4	26.2
	2011	687	34.5	30.7	24.7	10.0	34.5	35.7	33.2
Germany	2007	748	49.6	27.8	18.3	4.3	49.6	44.9	53.5
	2011	566	55.5	23.8	17.7	3.0	55.5	52.9	57.8
Hong Kong SAR	2007	538	73.0	20.1	6.7	0.2	73.0	79.0	67.8
	2011	573	53.6	38.2	7.2	1.0	53.6	55.2	52.1
Hungary	2007	580	39.2	42.4	14.5	4.0	39.2	34.9	43.1
	2011	741	36.9	40.1	15.0	7.9	36.9	37.0	36.8
Iran, Islamic Rep. of	2007	544	46.1	31.7	16.0	6.2	46.1	54.6	39.3
	2011	830	47.8	24.9	20.3	7.1	47.8	49.7	45.8
Italy	2007	635	68.6	18.2	9.2	4.0	68.6	65.9	71.1
	2011	598	57.5	26.7	11.1	4.7	57.5	59.6	55.7
Japan	2007	644	30.5	53.9	12.8	2.8	30.5	31.8	29.2
	2011	638	32.6	51.0	14.6	1.9	32.6	37.5	27.5
Kuwait	2007	542	10.0	35.2	42.8	12.0	10.0	12.2	7.5
	2011	594	13.4	44.8	34.3	7.6	13.4	17.7	8.6
Lithuania	2007	577	45.3	40.3	14.2	0.2	45.3	43.4	47.2
	2011	668	50.0	38.2	11.1	0.6	50.0	48.5	51.6
Netherlands	2007	471	59.2	34.7	4.8	1.3	59.2	52.2	66.8
	2011	461	51.4	44.4	3.0	1.2	51.4	50.3	53.1
New Zealand	2007	687	44.1	35.3	14.8	5.7	44.1	40.9	47.4
	2011	788	37.9	46.6	10.3	5.3	37.9	41.0	34.6
Norway	2007	584	40.8	30.5	20.8	7.9	40.8	39.0	42.3
	2011	456	41.4	31.9	18.4	8.3	41.4	44.4	38.2
Russian Federation	2007	640	42.0	38.0	15.3	4.7	42.0	43.9	39.9
	2011	633	53.6	31.3	12.9	2.2	53.6	53.2	54.0
Singapore	2007	726	62.1	33.6	3.5	0.7	62.1	63.7	60.6
	2011	908	62.2	35.2	2.3	0.3	62.2	63.8	60.8
Slovak Republic	2007	701	63.2	21.7	9.0	6.1	63.2	58.8	67.3
	2011	801	38.0	48.4	11.4	2.2	38.0	37.9	38.1
Slovenia	2007	613	46.0	40.8	11.0	2.2	46.0	44.3	47.8
	2011	638	39.3	42.1	15.7	2.9	39.3	41.0	37.8

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

S03_l3A (S041201A): Earth Science / Applying
Label: Advantage to farming by a river - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	45.7	26.8	20.7	6.8	45.7	47.3	44.2
	2011	663	52.7	22.2	18.4	6.8	52.7	55.0	50.2
Tunisia	2007	584	12.2	44.6	29.8	13.4	12.2	15.8	9.3
	2011	702	16.5	39.5	26.5	17.5	16.5	19.2	13.8
United States	2007	1135	44.9	45.3	6.6	3.2	44.9	43.0	46.8
	2011	1800	48.9	40.6	6.1	4.3	48.9	46.3	51.7

International Avg. (25)	2007	15794	47.1	33.0	14.9	5.0	47.1	46.1	48.0
	2011	17602	45.8	35.0	14.5	4.7	45.8	46.8	44.7

Alberta, Canada	2007	582	58.1	29.3	8.5	4.1	58.1	51.9	64.3
	2011	519	59.3	30.1	6.3	4.3	59.3	55.2	63.3
Ontario, Canada	2007	506	50.1	31.7	14.6	3.7	50.1	52.4	47.9
	2011	670	53.7	28.5	9.1	8.7	53.7	52.7	54.7
Quebec, Canada	2007	531	48.4	33.5	13.7	4.4	48.4	45.3	51.6
	2011	584	42.8	44.2	8.6	4.4	42.8	37.2	48.1
Dubai, UAE	2007	428	32.9	33.0	28.5	5.6	32.9	36.4	29.6
	2011	882	37.3	37.2	22.3	3.2	37.3	38.6	36.2

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

S03_l3B (S041201B): Earth Science / Applying
Label: Disadvantage to farming by a river - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	586	42.9	36.3	10.5	10.3	42.9	42.5	43.2
	2011	888	35.7	46.9	10.6	6.9	35.7	39.9	31.0
Austria	2007	698	52.5	21.7	13.5	12.2	52.5	49.7	55.0
	2011	669	47.4	25.3	16.1	11.2	47.4	48.5	46.2
Chinese Taipei	2007	593	55.9	32.6	6.6	4.9	55.9	59.9	52.5
	2011	612	52.2	36.9	7.5	3.5	52.2	53.6	50.9
Czech Republic	2007	594	63.6	17.2	11.1	8.0	63.6	59.4	66.9
	2011	656	60.1	24.9	7.5	7.5	60.1	61.6	58.7
Denmark	2007	513	45.7	29.3	12.1	12.9	45.7	43.6	47.8
	2011	560	44.1	33.7	10.3	11.9	44.1	49.1	38.9
England	2007	615	48.7	35.4	8.6	7.3	48.7	46.9	50.4
	2011	472	42.6	37.3	10.5	9.7	42.6	43.3	41.9
Georgia	2007	581	33.8	24.7	24.6	17.0	33.8	35.3	32.4
	2011	687	29.4	29.9	21.9	18.7	29.4	27.8	31.3
Germany	2007	748	46.1	29.7	13.8	10.4	46.1	41.9	49.8
	2011	566	45.9	30.4	14.2	9.5	45.9	44.9	46.8
Hong Kong SAR	2007	538	63.4	28.7	4.6	3.2	63.4	63.3	63.6
	2011	573	45.3	45.7	5.9	3.2	45.3	45.5	45.1
Hungary	2007	580	41.7	38.7	11.3	8.3	41.7	39.9	43.3
	2011	741	43.0	31.7	11.8	13.5	43.0	46.0	40.1
Iran, Islamic Rep. of	2007	544	19.5	38.1	31.9	10.5	19.5	27.2	13.5
	2011	830	21.6	40.4	22.2	15.8	21.6	22.7	20.5
Italy	2007	635	59.8	22.9	10.1	7.3	59.8	56.5	62.8
	2011	598	55.0	23.5	13.6	7.9	55.0	52.6	57.1
Japan	2007	644	23.6	58.4	11.2	6.8	23.6	24.8	22.4
	2011	638	25.9	55.6	10.2	8.3	25.9	32.5	18.9
Kuwait	2007	542	5.7	32.9	29.2	32.2	5.7	4.9	6.6
	2011	594	5.2	49.3	23.9	21.5	5.2	6.1	4.2
Lithuania	2007	577	30.6	52.0	10.5	6.9	30.6	29.0	32.2
	2011	669	34.4	50.9	9.9	4.7	34.4	36.1	32.6
Netherlands	2007	471	60.6	32.0	4.3	3.1	60.6	55.3	66.3
	2011	461	52.1	42.9	2.9	2.1	52.1	53.8	50.3
New Zealand	2007	687	40.9	35.5	12.0	11.6	40.9	38.7	43.1
	2011	788	37.9	44.6	8.3	9.2	37.9	41.5	34.2
Norway	2007	584	25.6	36.6	21.8	16.0	25.6	26.7	24.7
	2011	456	24.8	42.7	16.4	16.1	24.8	27.0	22.4
Russian Federation	2007	640	42.8	34.5	12.8	9.9	42.8	46.2	39.2
	2011	633	42.4	40.6	10.4	6.6	42.4	41.6	43.2
Singapore	2007	726	53.9	41.1	3.2	1.8	53.9	54.8	53.0
	2011	909	49.1	47.7	2.4	0.8	49.1	52.3	46.2
Slovak Republic	2007	701	53.4	26.1	11.3	9.2	53.4	49.6	57.1
	2011	801	54.8	28.9	11.1	5.2	54.8	50.5	58.9
Slovenia	2007	613	49.4	37.7	7.4	5.5	49.4	48.9	49.9
	2011	638	51.4	30.3	11.9	6.5	51.4	53.4	49.7

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

S03_13B (S041201B): Earth Science / Applying
Label: Disadvantage to farming by a river - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	665	31.5	36.7	16.4	15.5	31.5	27.0	35.7
	2011	663	33.1	39.2	13.9	13.8	33.1	37.8	28.3
Tunisia	2007	584	5.0	40.7	31.7	22.6	5.0	4.3	5.6
	2011	702	6.8	35.2	32.1	25.8	6.8	7.3	6.3
United States	2007	1135	35.5	53.3	5.0	6.2	35.5	33.0	37.9
	2011	1800	35.3	53.7	4.1	6.9	35.3	33.9	36.9
International Avg. (25)	2007	15794	41.3	34.9	13.4	10.4	41.3	40.4	42.2
	2011	17604	39.0	38.7	12.4	9.9	39.0	40.4	37.6
Alberta, Canada	2007	582	47.2	38.7	7.0	7.2	47.2	44.4	50.0
	2011	520	41.6	47.3	5.0	6.2	41.6	40.6	42.5
Ontario, Canada	2007	506	45.7	35.9	10.0	8.4	45.7	48.2	43.4
	2011	670	36.3	43.9	7.0	12.7	36.3	36.1	36.6
Quebec, Canada	2007	531	41.3	38.1	12.5	8.2	41.3	39.3	43.4
	2011	584	34.9	50.2	8.0	7.0	34.9	26.1	43.0
Dubai, UAE	2007	428	24.2	36.1	20.8	18.8	24.2	29.5	19.4
	2011	882	21.4	50.0	16.3	12.3	21.4	21.2	21.6

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

S05_01 (S031340): Life Science / Knowing
Label: Best source of calcium - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	578	58.4	2.0	11.6	58.4	25.8	1.6	0.5	56.3	60.9
	2011	866	53.0	1.7	11.5	53.0	31.3	2.4	0.0	50.1	56.1
Austria	2007	687	34.6	8.3	24.4	34.6	30.6	2.1	0.0	31.0	38.3
	2011	664	26.9	10.2	22.4	26.9	38.2	2.3	0.0	27.1	26.7
Chinese Taipei	2007	590	46.2	1.0	37.0	46.2	15.1	0.7	0.0	47.1	45.3
	2011	610	53.5	1.9	32.1	53.5	12.2	0.4	0.0	49.6	56.9
Czech Republic	2007	607	50.6	3.3	16.1	50.6	27.9	1.6	0.5	46.7	53.9
	2011	662	60.0	2.5	13.5	60.0	23.3	0.7	0.0	58.6	61.3
Denmark	2007	492	64.2	3.8	10.0	64.2	19.9	1.6	0.4	65.7	62.9
	2011	565	62.1	2.1	11.4	62.1	22.7	1.8	0.0	62.5	61.6
England	2007	630	65.4	0.9	11.7	65.4	20.4	1.6	0.0	66.4	64.4
	2011	493	55.3	1.1	18.8	55.3	22.1	2.4	0.3	54.9	55.6
Georgia	2007	580	26.0	20.0	18.6	26.0	28.7	4.9	1.8	25.4	26.6
	2011	674	35.1	11.8	18.3	35.1	33.1	1.7	0.1	36.7	33.8
Germany	2007	745	30.8	9.2	15.4	30.8	39.6	4.6	0.5	29.4	32.0
	2011	571	25.4	11.0	22.6	25.4	38.2	2.7	0.0	22.9	27.9
Hong Kong SAR	2007	548	59.3	0.7	25.3	59.3	14.4	0.4	0.0	60.7	58.0
	2011	568	55.5	1.3	28.3	55.5	14.5	0.4	0.0	55.3	55.6
Hungary	2007	579	41.2	7.2	12.4	41.2	37.1	2.0	0.1	43.5	38.5
	2011	736	44.3	2.4	10.2	44.3	40.1	3.0	0.0	47.5	41.3
Iran, Islamic Rep. of	2007	541	32.1	6.2	9.6	32.1	47.3	3.7	1.0	34.1	30.0
	2011	819	26.9	6.2	10.2	26.9	53.5	2.5	0.6	25.8	28.0
Italy	2007	642	45.2	3.3	9.3	45.2	40.0	1.8	0.4	42.0	48.1
	2011	612	61.9	1.6	5.7	61.9	29.9	0.9	0.0	61.3	62.6
Japan	2007	629	69.7	1.3	15.8	69.7	12.2	1.0	0.0	67.9	71.4
	2011	627	70.4	1.7	12.5	70.4	14.5	0.7	0.1	67.3	73.5
Kuwait	2007	544	22.1	7.5	19.3	22.1	41.4	8.8	1.0	25.4	18.7
	2011	587	33.6	7.4	22.8	33.6	31.2	4.2	0.8	32.7	34.6
Lithuania	2007	552	43.8	2.5	25.2	43.8	26.2	2.1	0.2	41.7	45.5
	2011	667	42.3	6.5	20.8	42.3	29.1	1.2	0.0	39.6	44.7
Netherlands	2007	480	42.2	5.7	13.4	42.2	38.0	0.7	0.0	42.4	42.0
	2011	444	44.6	4.8	15.1	44.6	34.6	0.4	0.4	41.5	48.0
New Zealand	2007	714	46.9	3.0	18.6	46.9	29.9	1.0	0.6	49.4	44.6
	2011	783	50.6	5.8	17.2	50.6	24.5	1.5	0.3	51.4	49.8
Norway	2007	576	36.7	3.4	17.7	36.7	39.8	1.9	0.5	40.0	33.4
	2011	433	28.7	3.1	24.1	28.7	42.2	1.7	0.1	27.5	30.0
Russian Federation	2007	635	36.2	6.6	17.1	36.2	36.8	2.4	1.0	34.2	38.5
	2011	629	33.7	4.8	15.1	33.7	46.0	0.5	0.0	34.3	33.0
Singapore	2007	716	75.3	1.2	14.9	75.3	8.1	0.5	0.0	79.6	71.6
	2011	913	76.9	1.1	15.3	76.9	6.7	0.1	0.0	76.2	77.5
Slovak Republic	2007	712	54.7	2.0	13.2	54.7	26.8	3.0	0.3	49.6	59.3
	2011	789	58.2	3.3	11.5	58.2	26.0	0.9	0.1	56.9	59.3
Slovenia	2007	615	29.5	7.2	28.0	29.5	33.1	1.3	0.9	31.4	27.7
	2011	651	23.2	12.5	18.2	23.2	42.5	3.3	0.3	20.9	25.6

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

S05_01 (S031340): Life Science / Knowing
Label: Best source of calcium - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	46.7	4.5	13.3	46.7	34.3	0.7	0.4	48.2	45.0
	2011	692	34.5	5.7	10.7	34.5	46.2	2.4	0.5	28.8	40.0
Tunisia	2007	591	36.2	7.9	9.7	36.2	23.3	18.3	4.7	38.5	33.8
	2011	703	34.0	5.2	12.1	34.0	26.8	18.8	3.1	33.9	34.2
United States	2007	1140	55.9	2.6	14.4	55.9	25.9	0.8	0.4	56.5	55.3
	2011	1785	46.6	2.1	18.1	46.6	32.5	0.6	0.1	46.5	46.8
International Avg. (25)	2007	15789	46.0	4.8	16.9	46.0	28.9	2.8	0.6	46.1	45.8
	2011	17543	45.5	4.7	16.7	45.5	30.5	2.3	0.3	44.4	46.6
Alberta, Canada	2007	577	73.8	1.2	5.5	73.8	18.8	0.3	0.4	72.7	74.6
	2011	511	60.4	0.7	12.3	60.4	24.6	1.6	0.5	60.9	59.9
Ontario, Canada	2007	504	74.2	0.6	6.2	74.2	18.1	0.7	0.1	68.9	80.1
	2011	644	68.6	1.4	11.8	68.6	16.6	0.9	0.8	68.8	68.3
Quebec, Canada	2007	564	71.0	1.8	4.7	71.0	21.3	1.2	0.0	71.6	70.5
	2011	609	66.1	1.6	5.9	66.1	25.7	0.7	0.0	65.8	66.4
Dubai, UAE	2007	430	36.5	4.6	22.1	36.5	31.3	5.1	0.5	43.0	30.8
	2011	873	38.6	4.0	25.6	38.6	29.8	1.8	0.1	40.7	36.7

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

S05_02 (S031236): Life Science / Knowing
Label: Bird's foot structure - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	88.1	1.3	3.8	4.8	88.1	0.9	1.0	88.2	88.1
	2011	866	85.0	1.3	3.5	9.1	85.0	1.0	0.0	85.9	84.1
Austria	2007	687	89.0	0.8	1.5	8.0	89.0	0.7	0.0	91.0	87.0
	2011	664	85.5	1.0	2.5	9.8	85.5	1.1	0.0	89.0	82.1
Chinese Taipei	2007	590	74.9	1.8	4.2	18.1	74.9	1.0	0.0	73.5	76.3
	2011	610	79.7	1.1	4.3	14.7	79.7	0.2	0.0	82.5	77.3
Czech Republic	2007	607	91.8	1.2	1.4	3.8	91.8	1.3	0.5	92.1	91.5
	2011	662	89.2	2.0	5.2	3.0	89.2	0.6	0.0	89.4	89.0
Denmark	2007	492	92.9	0.0	1.2	4.1	92.9	1.2	0.5	93.6	92.2
	2011	565	87.5	1.1	2.7	6.7	87.5	1.9	0.0	89.3	85.7
England	2007	630	88.8	1.5	2.1	5.9	88.8	1.7	0.0	93.6	84.0
	2011	493	82.7	1.6	3.5	10.1	82.7	1.7	0.3	87.0	78.7
Georgia	2007	580	43.6	2.5	5.9	41.0	43.6	4.7	2.3	43.5	43.7
	2011	674	56.9	2.6	5.2	33.7	56.9	1.4	0.1	54.6	58.7
Germany	2007	745	86.2	0.2	2.6	9.3	86.2	0.6	1.1	87.3	85.1
	2011	571	87.4	1.5	0.6	9.8	87.4	0.5	0.0	90.5	84.4
Hong Kong SAR	2007	548	57.5	5.1	4.8	32.4	57.5	0.2	0.0	54.0	60.9
	2011	568	49.7	5.3	8.6	36.1	49.7	0.3	0.0	52.5	47.3
Hungary	2007	579	89.2	0.7	1.5	5.8	89.2	2.7	0.1	89.7	88.6
	2011	737	89.5	1.1	2.4	6.2	89.5	0.8	0.0	90.9	88.2
Iran, Islamic Rep. of	2007	541	67.0	6.6	8.8	10.0	67.0	6.1	1.5	66.3	67.8
	2011	819	68.7	8.8	8.3	11.2	68.7	2.4	0.6	69.1	68.4
Italy	2007	643	84.3	1.7	1.9	10.4	84.3	1.4	0.4	83.0	85.4
	2011	612	81.1	2.9	1.4	13.9	81.1	0.7	0.0	82.4	79.7
Japan	2007	629	69.2	3.5	6.2	20.0	69.2	1.1	0.0	76.4	62.4
	2011	627	70.7	1.9	5.7	21.2	70.7	0.3	0.1	71.9	69.6
Kuwait	2007	544	41.3	8.0	10.7	33.1	41.3	5.6	1.3	48.0	34.5
	2011	587	41.0	12.9	19.9	19.6	41.0	5.8	0.8	42.4	39.3
Lithuania	2007	552	92.6	1.0	2.1	3.2	92.6	1.0	0.2	94.4	91.1
	2011	667	85.7	2.5	3.0	8.1	85.7	0.6	0.1	86.2	85.3
Netherlands	2007	480	92.9	0.4	1.6	4.6	92.9	0.4	0.2	94.6	91.5
	2011	444	92.4	1.5	1.4	4.2	92.4	0.0	0.4	91.7	93.3
New Zealand	2007	714	85.9	2.3	3.1	6.6	85.9	1.4	0.7	89.1	82.8
	2011	783	84.2	1.2	4.1	10.0	84.2	0.3	0.3	85.9	82.4
Norway	2007	576	91.7	0.7	1.0	5.4	91.7	0.4	0.9	93.7	89.7
	2011	433	88.5	0.8	2.0	8.1	88.5	0.4	0.1	88.3	88.8
Russian Federation	2007	635	86.2	1.7	1.5	8.6	86.2	1.0	1.0	86.8	85.5
	2011	629	86.4	1.5	2.5	9.2	86.4	0.4	0.0	88.1	84.8
Singapore	2007	716	76.8	2.4	5.6	14.4	76.8	0.7	0.1	77.8	76.0
	2011	913	75.2	3.0	6.1	15.7	75.2	0.0	0.0	78.1	72.4
Slovak Republic	2007	712	93.5	0.6	0.9	4.4	93.5	0.3	0.3	94.5	92.6
	2011	789	90.7	1.7	1.3	5.7	90.7	0.4	0.2	89.8	91.5
Slovenia	2007	615	86.6	0.6	3.2	7.7	86.6	0.8	1.0	90.9	82.5
	2011	654	82.4	0.8	2.7	13.2	82.4	0.5	0.4	83.9	80.9

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

S05_02 (S031236): Life Science / Knowing
Label: Bird's foot structure - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	87.2	1.3	2.3	8.2	87.2	0.3	0.6	88.3	86.0
	2011	692	83.2	2.4	4.6	7.9	83.2	1.3	0.5	80.3	86.1
Tunisia	2007	591	59.3	5.7	7.3	6.8	59.3	15.7	5.2	67.5	51.3
	2011	703	68.5	3.3	4.6	7.7	68.5	12.8	3.1	74.7	62.9
United States	2007	1140	86.8	0.8	2.6	8.6	86.8	0.4	0.7	87.6	86.0
	2011	1785	83.9	1.4	3.9	10.1	83.9	0.6	0.2	83.6	84.1

International Avg. (25)	2007	15797	80.1	2.1	3.5	11.4	80.1	2.1	0.8	81.8	78.5
	2011	17547	79.0	2.6	4.4	12.2	79.0	1.4	0.3	80.3	77.8

Alberta, Canada	2007	577	88.4	1.3	3.1	6.7	88.4	0.2	0.4	93.1	84.4
	2011	511	85.2	1.2	4.0	8.3	85.2	0.9	0.5	82.7	87.3
Ontario, Canada	2007	504	85.8	0.7	2.5	10.0	85.8	0.8	0.1	86.2	85.4
	2011	644	82.2	2.8	5.2	8.2	82.2	0.6	0.8	85.7	78.9
Quebec, Canada	2007	564	70.3	0.6	6.6	21.6	70.3	1.0	0.0	74.7	66.3
	2011	609	68.7	2.6	6.4	21.1	68.7	1.2	0.0	71.7	65.8
Dubai, UAE	2007	430	64.5	4.6	7.9	18.5	64.5	4.1	0.5	69.6	60.1
	2011	873	65.4	5.9	8.2	18.5	65.4	1.8	0.2	66.4	64.5

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

S05_03A (S031391A): Earth Science / Knowing
Label: Ways to avoid wasting water - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	19.0	6.4	36.2	2.6	8.8	18.3	7.7	1.0	64.2	68.3	59.4
	2011	866	25.6	6.7	32.0	4.6	7.0	19.5	4.7	0.0	68.8	73.9	63.4
Austria	2007	687	22.1	7.7	22.1	0.0	15.2	11.6	21.3	0.0	51.9	54.6	49.1
	2011	664	23.1	4.6	21.3	3.7	12.0	18.8	16.6	0.0	52.6	57.8	47.5
Chinese Taipei	2007	590	23.8	38.1	26.7	0.0	4.2	4.9	2.3	0.0	88.6	92.4	84.8
	2011	610	19.6	35.3	34.9	1.3	5.5	2.5	0.9	0.0	91.1	93.2	89.2
Czech Republic	2007	607	12.3	9.2	13.8	0.4	18.0	16.5	29.1	0.7	35.6	37.5	34.1
	2011	662	13.8	8.7	19.1	0.5	17.3	21.4	19.2	0.0	42.1	41.2	43.1
Denmark	2007	492	14.1	14.5	14.5	1.0	8.1	29.4	17.9	0.5	44.1	49.2	39.3
	2011	565	20.4	8.7	17.6	2.5	9.5	29.9	11.3	0.0	49.4	60.0	38.4
England	2007	630	38.1	3.9	17.5	0.0	8.5	26.6	5.4	0.0	59.5	65.6	53.3
	2011	493	36.6	4.3	15.3	1.8	10.2	25.8	5.6	0.3	58.0	63.2	53.1
Georgia	2007	580	2.5	2.8	3.4	2.4	1.7	24.1	60.7	2.4	11.0	14.0	8.0
	2011	674	0.7	8.2	2.2	5.7	5.5	33.9	43.7	0.1	16.8	18.5	15.4
Germany	2007	745	15.8	5.8	24.0	0.3	14.8	15.7	22.5	1.1	45.9	48.8	43.2
	2011	571	21.0	1.6	25.1	0.0	14.7	18.7	19.0	0.0	47.7	52.1	43.3
Hong Kong SAR	2007	548	13.1	30.5	25.2	0.8	11.2	13.5	5.7	0.0	69.6	76.4	62.7
	2011	568	8.1	21.8	28.6	0.7	11.9	24.3	4.5	0.0	59.3	64.8	54.6
Hungary	2007	579	32.9	6.4	19.1	0.1	12.0	15.0	14.2	0.3	58.5	59.3	57.4
	2011	737	34.1	3.7	26.2	0.0	14.2	17.1	4.7	0.0	64.0	70.5	57.9
Iran, Islamic Rep. of	2007	541	17.8	7.4	16.6	3.9	20.9	11.8	18.9	2.8	45.7	47.8	43.3
	2011	819	26.6	2.6	17.6	3.7	18.9	14.6	15.1	1.0	50.5	55.4	45.9
Italy	2007	644	33.3	5.4	30.8	0.5	3.1	15.5	11.1	0.4	70.0	68.8	71.1
	2011	612	34.4	5.7	26.3	0.6	14.0	13.1	6.0	0.0	66.9	73.9	59.8
Japan	2007	629	46.7	10.7	8.7	0.0	22.3	8.8	2.7	0.0	66.1	72.3	60.3
	2011	627	57.2	7.4	4.0	0.0	21.8	7.6	1.8	0.1	68.6	74.4	62.9
Kuwait	2007	544	20.3	1.6	6.8	2.8	4.1	15.5	47.4	1.4	31.5	36.6	26.4
	2011	592	7.3	1.1	4.3	9.2	6.9	37.8	32.6	0.8	21.9	27.8	15.0
Lithuania	2007	552	7.8	17.3	18.3	0.0	17.7	23.9	14.9	0.2	43.4	42.0	44.5
	2011	667	12.1	3.5	11.6	3.6	25.6	31.8	11.5	0.1	30.9	31.7	30.2
Netherlands	2007	480	13.7	4.8	31.7	0.2	13.2	32.1	4.0	0.2	50.5	54.9	47.0
	2011	444	20.0	3.7	26.0	3.0	11.8	34.6	0.4	0.4	52.7	53.9	51.4
New Zealand	2007	714	16.9	11.7	17.2	0.0	17.9	28.0	7.5	0.9	45.8	46.7	45.0
	2011	783	19.1	7.0	13.3	0.0	13.6	42.2	4.5	0.3	39.4	43.3	35.5
Norway	2007	576	11.7	7.5	13.0	0.0	16.0	33.4	17.5	0.9	32.2	35.8	28.6
	2011	433	20.3	4.1	19.9	0.2	31.7	15.9	7.9	0.1	44.5	47.5	41.4
Russian Federation	2007	635	18.0	8.8	14.6	0.0	19.5	20.3	17.8	1.0	41.4	43.7	38.6
	2011	629	14.0	10.7	11.1	0.7	20.4	34.0	9.1	0.0	36.5	43.1	30.6
Singapore	2007	716	13.5	28.4	33.9	0.5	1.4	20.8	1.5	0.1	76.3	79.6	73.4
	2011	913	41.0	15.2	22.0	0.0	2.1	17.2	2.4	0.0	78.2	82.0	74.4
Slovak Republic	2007	712	23.1	18.1	18.2	1.2	7.0	12.3	19.8	0.3	60.6	63.9	57.6
	2011	789	20.1	1.6	21.0	9.0	9.7	27.8	10.5	0.2	51.7	56.0	48.2
Slovenia	2007	615	9.1	7.8	16.8	1.6	20.8	29.0	13.9	1.0	35.3	37.3	33.5
	2011	654	19.0	3.2	13.7	1.1	12.3	32.4	17.9	0.4	37.0	42.1	32.0

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

S05_03A (S031391A): Earth Science / Knowing
Label: Ways to avoid wasting water - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	12.8	4.8	22.3	0.2	19.0	22.7	17.7	0.6	39.9	44.9	34.5
	2011	692	23.0	4.9	23.4	0.0	15.6	22.1	10.1	0.7	51.4	54.9	47.8
Tunisia	2007	591	16.3	2.5	3.7	0.9	1.4	35.6	33.6	6.1	23.3	26.4	20.3
	2011	703	13.5	3.4	8.1	1.3	0.6	42.9	26.4	3.9	26.2	30.0	22.8
United States	2007	1140	16.7	7.0	29.1	0.0	14.1	28.4	4.1	0.7	52.8	58.2	47.5
	2011	1785	18.6	10.8	33.2	0.0	9.5	26.2	1.5	0.2	62.6	65.1	60.1
International Avg. (25)	2007	15798	18.9	10.8	19.4	0.8	12.0	20.6	16.8	0.9	49.7	53.0	46.5
	2011	17552	22.0	7.5	19.1	2.1	12.9	24.5	11.5	0.4	50.8	55.0	46.6
Alberta, Canada	2007	577	36.3	10.8	28.2	0.5	5.6	15.2	2.9	0.4	75.8	77.5	74.4
	2011	511	36.6	5.5	25.3	0.2	10.3	18.9	2.6	0.7	67.5	66.2	68.6
Ontario, Canada	2007	504	27.5	10.7	25.1	0.3	11.6	19.4	5.3	0.1	63.6	64.6	62.5
	2011	644	31.8	4.1	18.4	1.2	10.7	29.4	3.5	0.8	55.6	59.0	52.4
Quebec, Canada	2007	564	37.7	4.1	26.5	0.7	3.5	16.4	11.1	0.0	68.9	78.0	60.8
	2011	609	44.4	2.6	22.8	0.6	6.8	19.1	3.7	0.0	70.4	72.1	68.8
Dubai, UAE	2007	430	23.4	5.7	11.3	0.3	11.8	27.2	19.8	0.5	40.7	43.2	38.3
	2011	873	27.9	5.6	13.0	0.8	5.0	34.1	13.4	0.3	47.3	46.9	47.6

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

S05_03B (S031391B): Earth Science / Knowing
Label: Ways to avoid wasting water - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	12.8	8.1	34.8	4.5	5.5	22.3	10.9	1.0	60.2	61.7	58.4
	2011	866	16.0	4.8	25.0	2.4	12.5	32.0	7.3	0.0	48.1	51.0	45.0
Austria	2007	687	9.9	6.3	22.7	0.0	11.6	18.0	31.5	0.0	38.8	41.0	36.5
	2011	664	12.4	4.3	19.8	1.9	10.7	22.9	28.1	0.0	38.4	43.3	33.4
Chinese Taipei	2007	590	12.1	30.7	27.2	0.0	6.0	18.0	6.0	0.0	70.0	73.5	66.5
	2011	610	10.3	17.9	24.7	2.9	6.6	34.8	2.8	0.0	55.9	54.3	57.3
Czech Republic	2007	607	3.9	5.3	9.7	0.2	12.5	22.6	45.2	0.7	19.1	23.7	15.0
	2011	662	5.9	6.6	16.3	0.1	14.1	24.9	32.2	0.0	28.9	28.5	29.2
Denmark	2007	492	6.5	6.0	12.1	0.1	9.1	39.4	26.2	0.5	24.8	26.1	23.6
	2011	565	10.7	5.8	19.7	1.0	11.5	33.9	17.3	0.0	37.2	45.2	29.0
England	2007	630	10.1	3.0	29.3	0.0	11.9	36.3	9.3	0.0	42.4	45.3	39.6
	2011	493	8.4	2.9	29.0	0.9	16.2	33.3	9.1	0.3	41.1	45.3	37.3
Georgia	2007	580	1.3	1.9	1.3	1.8	0.2	21.8	69.2	2.4	6.4	7.3	5.4
	2011	674	0.5	2.9	0.3	3.1	4.8	31.3	57.0	0.1	6.8	6.2	7.3
Germany	2007	745	7.9	5.9	23.1	0.0	10.2	21.7	30.2	1.1	36.9	38.8	35.2
	2011	571	11.0	1.3	26.5	0.0	10.2	24.7	26.2	0.0	38.9	42.9	34.8
Hong Kong SAR	2007	548	8.7	19.4	24.8	1.2	12.5	23.4	9.9	0.0	54.2	59.7	48.7
	2011	568	8.2	15.4	23.8	0.2	9.6	35.2	7.6	0.0	47.6	51.4	44.4
Hungary	2007	579	8.7	6.9	25.2	0.5	9.8	24.7	23.8	0.3	41.4	46.0	35.8
	2011	737	11.1	3.7	36.1	0.1	15.1	24.7	9.3	0.0	51.0	54.7	47.5
Iran, Islamic Rep. of	2007	541	8.9	6.6	19.5	5.5	11.6	15.8	29.1	2.8	40.5	43.5	37.3
	2011	819	17.6	2.4	20.5	4.1	13.2	21.0	20.4	1.0	44.5	47.2	41.9
Italy	2007	644	8.7	6.2	22.0	1.7	6.4	36.6	18.0	0.4	38.6	42.2	35.4
	2011	612	9.1	7.0	23.5	0.3	19.4	28.9	11.8	0.0	40.0	43.0	36.8
Japan	2007	629	13.7	19.2	16.8	0.0	20.0	22.7	7.6	0.0	49.7	52.2	47.5
	2011	627	14.5	12.0	10.6	0.9	33.9	23.6	4.4	0.1	38.0	39.0	36.9
Kuwait	2007	544	10.9	1.9	11.9	1.6	3.2	17.0	52.1	1.4	26.3	31.1	21.5
	2011	592	8.5	1.4	8.0	2.6	5.4	36.4	36.8	0.8	20.6	24.2	16.3
Lithuania	2007	552	4.7	13.8	14.7	0.3	12.3	28.9	25.1	0.2	33.4	36.1	31.3
	2011	667	4.0	2.6	11.2	2.8	19.5	39.3	20.5	0.1	20.6	22.1	19.3
Netherlands	2007	480	9.3	3.9	20.6	0.0	7.3	51.3	7.5	0.2	33.8	36.6	31.6
	2011	444	16.1	2.2	23.2	4.4	13.0	37.3	3.3	0.4	45.9	47.2	44.5
New Zealand	2007	714	6.9	6.4	18.2	0.2	16.1	38.5	12.9	0.9	31.6	34.1	29.4
	2011	783	7.8	5.9	21.9	0.0	9.6	44.6	9.9	0.3	35.6	38.4	32.7
Norway	2007	576	4.8	3.0	13.8	0.0	11.2	39.7	26.7	0.9	21.6	26.2	16.9
	2011	433	8.2	3.0	22.5	0.0	33.5	20.1	12.6	0.1	33.7	34.2	33.2
Russian Federation	2007	635	7.8	11.3	14.1	0.0	12.7	24.8	28.2	1.0	33.2	33.7	32.6
	2011	629	7.5	8.1	12.4	0.1	11.9	41.4	18.6	0.0	28.1	27.4	28.8
Singapore	2007	716	13.3	25.0	26.2	0.7	1.8	30.4	2.5	0.1	65.2	70.6	60.6
	2011	913	13.9	14.0	29.8	0.0	4.0	34.8	3.4	0.0	57.8	61.2	54.5
Slovak Republic	2007	712	7.7	10.6	17.2	0.7	5.3	26.0	32.2	0.3	36.3	36.3	36.2
	2011	789	8.8	2.4	17.7	7.5	7.0	36.9	19.6	0.2	36.4	40.5	32.9
Slovenia	2007	615	4.2	5.8	16.1	2.9	10.5	36.1	23.4	1.0	28.9	28.5	29.4
	2011	654	4.9	4.3	14.7	2.0	11.9	35.3	26.4	0.4	25.9	30.8	21.1

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

S05_03B (S031391B): Earth Science / Knowing
Label: Ways to avoid wasting water - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	6.0	4.1	16.9	0.0	11.0	33.4	28.0	0.6	27.0	29.6	24.1
	2011	692	9.8	5.8	23.5	0.0	15.7	28.7	15.7	0.7	39.0	44.0	34.2
Tunisia	2007	591	5.7	1.2	4.9	0.2	1.3	38.8	41.9	6.1	11.9	14.0	9.9
	2011	703	5.7	1.1	9.8	1.8	0.6	41.9	35.3	3.9	18.4	19.3	17.5
United States	2007	1140	7.1	5.6	29.2	0.0	13.8	38.2	5.4	0.7	41.9	44.9	38.9
	2011	1785	9.4	10.8	31.4	0.0	8.4	37.5	2.3	0.2	51.6	51.5	51.8
International Avg. (25)	2007	15798	8.1	8.7	18.9	0.9	9.3	29.1	24.1	0.9	36.6	39.3	33.9
	2011	17552	9.6	6.0	20.1	1.6	12.7	32.2	17.5	0.4	37.2	39.7	34.7
Alberta, Canada	2007	577	14.2	9.7	35.1	0.8	9.0	25.4	5.3	0.4	59.9	64.9	55.8
	2011	511	12.9	6.0	31.6	1.6	14.6	28.8	3.9	0.7	52.1	55.4	49.3
Ontario, Canada	2007	504	10.9	9.6	30.3	0.0	12.0	29.2	7.8	0.1	50.8	51.1	50.6
	2011	644	11.4	5.4	23.6	1.6	13.1	38.3	5.8	0.8	42.0	45.8	38.4
Quebec, Canada	2007	564	12.0	4.1	33.7	1.8	4.3	27.0	17.0	0.0	51.6	59.7	44.4
	2011	609	11.5	2.9	36.1	0.3	10.3	30.5	8.4	0.0	50.8	54.5	47.3
Dubai, UAE	2007	430	7.4	5.8	15.6	0.5	10.0	35.1	25.0	0.5	29.4	30.3	28.6
	2011	873	10.2	4.4	20.4	0.2	5.5	41.5	17.5	0.3	35.2	38.5	32.3

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

S05_03Z (S031391Z): Earth Science / Knowing

Label: Ways to avoid wasting water-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	51.8	20.8	18.7	0.0	7.7	1.0	72.6	51.8	54.1	49.1
	2011	866	41.8	33.3	0.0	20.4	4.5	0.0	75.1	41.8	45.5	37.9
Austria	2007	687	31.3	28.0	19.4	0.0	21.3	0.0	59.4	31.3	33.8	28.8
	2011	664	30.1	30.9	0.0	22.6	16.5	0.0	60.9	30.1	35.7	24.4
Chinese Taipei	2007	590	65.7	27.2	4.8	0.0	2.3	0.0	92.9	65.7	69.6	61.7
	2011	610	51.3	44.3	0.0	3.5	0.9	0.0	95.6	51.3	51.2	51.4
Czech Republic	2007	607	14.6	25.5	30.5	0.0	28.7	0.7	40.1	14.6	17.0	12.5
	2011	662	21.1	28.9	0.0	31.2	18.9	0.0	49.9	21.1	20.4	21.7
Denmark	2007	492	18.4	32.0	31.1	0.0	17.9	0.5	50.4	18.4	23.1	14.1
	2011	565	29.2	28.1	0.0	31.4	11.3	0.0	57.3	29.2	38.4	19.8
England	2007	630	33.6	34.7	26.2	0.0	5.4	0.0	68.3	33.6	38.4	28.8
	2011	493	30.9	37.4	0.0	26.0	5.4	0.3	68.3	30.9	34.4	27.5
Georgia	2007	580	3.7	10.0	24.0	0.0	59.9	2.4	13.7	3.7	5.1	2.2
	2011	674	2.4	18.7	0.0	35.2	43.5	0.1	21.2	2.4	2.4	2.5
Germany	2007	745	30.0	22.7	24.0	0.0	22.2	1.1	52.7	30.0	34.2	26.3
	2011	571	31.5	23.5	0.0	26.0	19.0	0.0	55.0	31.5	36.2	26.9
Hong Kong SAR	2007	548	46.4	30.9	16.9	0.0	5.7	0.0	77.3	46.4	52.8	40.0
	2011	568	32.6	41.8	0.0	21.2	4.5	0.0	74.3	32.6	36.5	29.2
Hungary	2007	579	33.3	33.2	19.0	0.0	14.2	0.3	66.5	33.3	36.5	29.4
	2011	737	40.8	33.3	0.0	21.3	4.6	0.0	74.1	40.8	45.4	36.5
Iran, Islamic Rep. of	2007	541	32.0	22.3	24.6	0.0	18.4	2.8	54.2	32.0	33.7	30.1
	2011	819	33.5	28.0	0.0	22.5	15.1	1.0	61.5	33.5	39.0	28.3
Italy	2007	644	31.6	45.3	11.8	0.0	10.9	0.4	76.9	31.6	34.2	29.4
	2011	612	33.0	41.0	0.0	20.2	5.9	0.0	73.9	33.0	38.5	27.2
Japan	2007	629	36.9	42.1	18.3	0.0	2.7	0.0	79.0	36.9	40.6	33.4
	2011	627	28.1	50.5	0.0	19.5	1.8	0.1	78.5	28.1	29.9	26.3
Kuwait	2007	544	22.3	13.3	16.6	0.0	46.4	1.4	35.6	22.3	25.9	18.6
	2011	592	12.3	17.9	0.0	37.3	31.7	0.8	30.2	12.3	15.1	9.0
Lithuania	2007	552	22.2	32.4	30.4	0.0	14.8	0.2	54.6	22.2	20.7	23.4
	2011	667	11.8	28.0	0.0	48.8	11.3	0.1	39.7	11.8	12.5	11.1
Netherlands	2007	480	24.3	35.6	36.1	0.0	3.8	0.2	60.0	24.3	27.9	21.5
	2011	444	35.0	28.7	0.0	35.5	0.4	0.4	63.6	35.0	37.0	32.8
New Zealand	2007	714	22.3	32.8	36.6	0.0	7.5	0.9	55.1	22.3	23.2	21.5
	2011	783	23.1	28.9	0.0	43.2	4.5	0.3	52.0	23.1	27.1	18.9
Norway	2007	576	13.3	27.1	41.2	0.0	17.5	0.9	40.4	13.3	16.3	10.4
	2011	433	23.7	30.7	0.0	37.6	7.9	0.1	54.5	23.7	23.6	23.9
Russian Federation	2007	635	22.9	28.8	29.6	0.0	17.7	1.0	51.7	22.9	22.2	23.8
	2011	629	16.7	31.2	0.0	43.5	8.6	0.0	47.9	16.7	19.4	14.3
Singapore	2007	716	60.1	21.2	17.1	0.0	1.5	0.1	81.3	60.1	66.4	54.8
	2011	913	52.4	31.1	0.0	14.0	2.4	0.0	83.5	52.4	55.9	49.1
Slovak Republic	2007	712	31.6	33.7	14.9	0.0	19.6	0.3	65.3	31.6	32.3	30.9
	2011	789	28.0	32.2	0.0	29.2	10.4	0.2	60.2	28.0	32.1	24.4
Slovenia	2007	615	19.5	25.3	40.4	0.0	13.7	1.0	44.8	19.5	18.9	20.0
	2011	654	18.1	26.8	0.0	37.1	17.6	0.4	44.9	18.1	22.4	13.8

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

S05_03Z (S031391Z): Earth Science / Knowing

Label: Ways to avoid wasting water-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	19.7	27.5	34.6	0.0	17.5	0.6	47.2	19.7	22.5	16.6
	2011	692	28.0	34.4	0.0	26.7	10.1	0.7	62.4	28.0	33.5	22.6
Tunisia	2007	591	8.9	17.5	35.9	0.0	31.6	6.1	26.4	8.9	9.6	8.2
	2011	703	13.5	17.5	0.0	39.3	25.7	3.9	31.1	13.5	14.2	12.9
United States	2007	1140	32.1	30.4	32.8	0.0	3.9	0.7	62.6	32.1	36.4	27.9
	2011	1785	41.3	31.6	0.0	25.4	1.5	0.2	72.9	41.3	42.8	39.9
International Avg. (25)	2007	15798	29.2	28.0	25.4	0.0	16.5	0.9	57.2	29.2	31.8	26.5
	2011	17552	28.4	31.1	0.0	28.7	11.4	0.4	59.5	28.4	31.6	25.3
Alberta, Canada	2007	577	52.8	30.0	13.8	0.0	2.9	0.4	82.9	52.8	56.7	49.6
	2011	511	42.4	34.8	0.0	19.5	2.6	0.7	77.2	42.4	44.8	40.5
Ontario, Canada	2007	504	41.9	30.7	21.9	0.0	5.3	0.1	72.6	41.9	42.4	41.2
	2011	644	30.8	36.0	0.0	28.9	3.5	0.8	66.8	30.8	34.3	27.5
Quebec, Canada	2007	564	45.5	29.5	13.9	0.0	11.1	0.0	75.0	45.5	55.3	36.7
	2011	609	43.9	33.4	0.0	19.1	3.6	0.0	77.3	43.9	48.2	39.8
Dubai, UAE	2007	430	21.6	26.9	31.6	0.0	19.5	0.5	48.5	21.6	21.7	21.5
	2011	873	27.1	28.2	0.0	31.4	12.9	0.3	55.3	27.1	28.7	25.8

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

S05_04 (S031361): Life Science / Reasoning

Label: Eyes in different outside conditions - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	574	54.1	16.6	54.1	11.2	12.9	3.9	1.3	54.6	53.4
	2011	866	62.3	17.0	62.3	9.4	8.9	2.3	0.2	62.5	62.0
Austria	2007	687	64.9	15.4	64.9	4.2	5.9	9.6	0.0	67.8	61.8
	2011	664	59.3	16.8	59.3	6.1	8.8	9.0	0.0	61.3	57.2
Chinese Taipei	2007	590	68.3	20.8	68.3	1.9	2.9	6.1	0.0	70.6	65.9
	2011	610	74.3	15.9	74.3	2.4	3.5	3.9	0.0	75.0	73.7
Czech Republic	2007	607	41.8	27.4	41.8	2.7	5.9	21.5	0.7	40.5	42.8
	2011	662	57.1	22.2	57.1	5.8	5.8	9.1	0.0	53.3	60.6
Denmark	2007	471	68.4	16.3	68.4	7.6	5.2	1.2	1.3	64.2	72.5
	2011	565	65.1	19.7	65.1	4.1	5.0	5.8	0.3	62.9	67.3
England	2007	630	66.5	13.8	66.5	5.7	8.7	5.2	0.1	66.4	66.6
	2011	493	65.1	15.1	65.1	7.1	8.1	4.1	0.5	66.2	64.0
Georgia	2007	579	30.9	29.3	30.9	12.6	8.0	14.6	4.6	30.0	31.7
	2011	673	35.4	36.0	35.4	9.2	10.5	7.4	1.5	31.6	38.4
Germany	2007	745	63.6	12.2	63.6	4.5	4.7	13.4	1.5	66.6	60.9
	2011	571	68.2	13.5	68.2	4.9	5.8	7.6	0.0	66.9	69.5
Hong Kong SAR	2007	548	70.6	19.1	70.6	3.0	3.0	4.3	0.0	74.7	66.6
	2011	568	74.1	16.5	74.1	2.5	4.7	2.2	0.0	75.1	73.3
Hungary	2007	579	54.3	22.4	54.3	5.9	7.2	10.0	0.3	53.4	55.5
	2011	734	62.1	17.7	62.1	6.9	6.1	7.2	0.0	59.9	64.2
Iran, Islamic Rep. of	2007	541	36.2	25.2	36.2	11.2	7.8	15.0	4.5	33.7	39.0
	2011	819	45.9	26.4	45.9	12.1	7.9	6.2	1.4	41.9	49.7
Italy	2007	592	63.3	18.6	63.3	6.6	6.8	4.3	0.4	63.5	63.1
	2011	612	59.8	20.3	59.8	7.0	8.3	4.6	0.1	55.0	64.8
Japan	2007	629	57.2	23.6	57.2	3.1	3.6	12.4	0.0	62.3	52.5
	2011	627	58.5	23.7	58.5	1.6	2.3	13.5	0.3	57.1	59.9
Kuwait	2007	544	36.6	24.2	36.6	12.8	10.7	13.3	2.4	33.7	39.5
	2011	584	39.8	27.6	39.8	11.3	11.0	9.5	0.8	43.0	35.9
Lithuania	2007	552	37.4	28.1	37.4	8.1	10.1	16.0	0.3	36.4	38.2
	2011	667	47.4	24.6	47.4	7.1	8.6	11.7	0.4	46.4	48.4
Netherlands	2007	480	68.6	13.6	68.6	5.5	8.2	3.6	0.6	70.3	67.2
	2011	444	69.1	12.0	69.1	6.0	8.3	4.1	0.4	70.7	67.4
New Zealand	2007	714	56.5	13.3	56.5	11.5	11.5	6.4	0.9	58.9	54.2
	2011	783	59.3	14.6	59.3	9.6	11.8	4.4	0.3	60.7	57.8
Norway	2007	576	53.6	21.6	53.6	8.9	7.8	5.5	2.6	53.0	54.2
	2011	433	51.1	26.2	51.1	10.0	9.0	3.6	0.1	50.2	52.0
Russian Federation	2007	635	49.8	21.5	49.8	6.8	10.4	10.3	1.2	48.2	51.7
	2011	629	58.4	17.4	58.4	11.4	7.6	5.2	0.0	56.6	60.1
Singapore	2007	716	69.0	22.2	69.0	3.6	5.0	0.1	0.1	70.1	67.9
	2011	913	68.3	18.4	68.3	6.7	6.4	0.1	0.0	69.0	67.6
Slovak Republic	2007	712	57.8	19.8	57.8	5.2	6.2	10.6	0.4	58.7	57.0
	2011	789	59.5	23.4	59.5	4.3	7.1	5.2	0.4	60.4	58.8
Slovenia	2007	615	54.0	22.6	54.0	4.9	5.5	11.3	1.8	51.5	56.4
	2011	631	64.9	22.7	64.9	2.8	3.2	5.5	0.9	62.3	67.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S05_04 (S031361): Life Science / Reasoning

Label: Eyes in different outside conditions - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	635	67.0	20.1	67.0	4.3	6.5	1.4	0.7	67.3	66.6
	2011	692	67.7	16.5	67.7	3.9	4.4	6.7	0.8	66.4	68.9
Tunisia	2007	591	26.9	14.8	26.9	12.1	8.6	30.6	7.0	30.6	23.4
	2011	703	30.3	13.7	30.3	12.7	6.6	31.4	5.3	30.2	30.4
United States	2007	1140	65.8	16.6	65.8	6.7	8.8	1.0	1.1	65.1	66.6
	2011	1785	66.1	17.8	66.1	5.7	8.7	1.3	0.3	65.2	67.1
International Avg. (25)	2007	15682	55.3	20.0	55.3	6.8	7.3	9.3	1.3	55.7	55.0
	2011	17517	58.8	19.8	58.8	6.8	7.1	6.9	0.6	58.0	59.5
Alberta, Canada	2007	577	68.8	12.4	68.8	9.3	7.0	2.0	0.5	69.9	67.9
	2011	511	65.1	17.1	65.1	6.6	9.3	1.3	0.7	64.2	65.8
Ontario, Canada	2007	504	71.2	12.9	71.2	5.4	7.8	2.6	0.1	70.4	72.1
	2011	644	59.9	15.6	59.9	9.9	9.9	3.7	1.1	61.0	58.9
Quebec, Canada	2007	564	57.8	19.8	57.8	7.2	6.2	8.7	0.4	63.6	52.6
	2011	609	54.3	17.9	54.3	7.9	12.6	7.3	0.0	59.4	49.3
Dubai, UAE	2007	430	48.6	21.3	48.6	10.1	8.1	11.3	0.7	52.7	45.0
	2011	873	56.2	19.3	56.2	8.7	11.0	4.5	0.3	53.1	58.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S05_05 (S031001): Life Science / Applying
Label: How tadpoles get in the pond - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	86.3	7.6	2.6	1.1	86.3	0.4	2.1	86.4	86.2
	2011	866	86.3	6.9	1.6	3.7	86.3	1.3	0.2	86.5	86.1
Austria	2007	687	86.3	9.4	1.8	0.8	86.3	1.7	0.0	86.7	85.9
	2011	664	88.9	5.8	2.3	0.9	88.9	2.1	0.0	89.9	87.8
Chinese Taipei	2007	590	92.4	4.2	1.6	0.8	92.4	0.9	0.0	92.5	92.3
	2011	610	90.1	6.0	1.5	2.3	90.1	0.2	0.0	92.1	88.4
Czech Republic	2007	607	81.9	12.6	1.4	1.7	81.9	1.5	0.7	79.8	83.8
	2011	662	86.8	11.0	1.1	0.4	86.8	0.6	0.1	84.7	88.7
Denmark	2007	492	81.2	9.4	2.4	4.2	81.2	1.7	1.3	80.9	81.4
	2011	565	87.0	8.0	0.8	1.4	87.0	2.6	0.3	87.4	86.5
England	2007	630	89.0	6.5	1.7	1.6	89.0	1.1	0.1	93.4	84.6
	2011	493	87.2	8.1	1.5	2.4	87.2	0.3	0.5	86.8	87.6
Georgia	2007	580	47.2	20.3	13.8	9.1	47.2	5.0	4.6	47.6	46.9
	2011	673	59.3	18.0	11.2	6.4	59.3	3.6	1.5	56.9	61.1
Germany	2007	745	86.6	8.4	0.5	1.4	86.6	1.4	1.7	88.7	84.6
	2011	571	89.6	6.1	1.2	2.4	89.6	0.5	0.2	90.1	89.2
Hong Kong SAR	2007	548	90.5	6.4	1.2	1.3	90.5	0.6	0.0	92.1	89.0
	2011	568	89.8	7.4	1.1	1.7	89.8	0.0	0.0	91.5	88.3
Hungary	2007	579	76.0	18.6	0.9	1.5	76.0	2.3	0.7	74.7	77.5
	2011	736	79.6	14.9	1.4	1.5	79.6	1.9	0.7	80.9	78.3
Iran, Islamic Rep. of	2007	541	64.8	12.9	4.0	7.3	64.8	5.8	5.2	64.7	64.9
	2011	819	74.5	8.7	6.9	5.3	74.5	3.0	1.5	75.2	73.9
Italy	2007	640	90.4	5.3	2.0	0.3	90.4	1.2	0.8	89.5	91.1
	2011	612	86.2	8.0	3.8	1.3	86.2	0.6	0.1	86.6	85.8
Japan	2007	629	93.7	3.3	1.0	1.4	93.7	0.6	0.0	94.3	93.1
	2011	627	94.9	3.0	1.5	0.1	94.9	0.1	0.3	95.1	94.6
Kuwait	2007	544	52.7	17.7	9.5	11.4	52.7	6.0	2.8	58.6	46.6
	2011	582	42.9	24.7	12.7	14.3	42.9	4.6	0.8	48.4	36.3
Lithuania	2007	551	77.2	15.6	2.5	1.6	77.2	1.9	1.2	71.9	81.4
	2011	667	81.6	11.5	4.1	0.9	81.6	1.5	0.4	81.0	82.2
Netherlands	2007	480	89.5	6.6	2.5	0.7	89.5	0.2	0.6	90.5	88.7
	2011	444	93.1	4.4	1.2	0.9	93.1	0.0	0.4	93.3	92.8
New Zealand	2007	714	81.0	9.5	2.0	4.7	81.0	2.0	0.9	85.5	76.9
	2011	783	80.6	11.7	4.0	2.7	80.6	0.7	0.3	82.2	78.9
Norway	2007	576	81.0	5.9	4.0	3.2	81.0	2.6	3.3	79.0	83.0
	2011	433	84.9	9.6	2.3	2.0	84.9	0.9	0.3	86.0	83.8
Russian Federation	2007	635	82.8	10.6	2.6	2.2	82.8	0.4	1.3	80.8	85.1
	2011	629	85.0	10.6	2.1	1.7	85.0	0.5	0.0	85.7	84.4
Singapore	2007	716	92.2	4.1	2.0	1.4	92.2	0.3	0.1	92.3	92.2
	2011	913	92.7	4.5	1.3	1.5	92.7	0.0	0.0	93.2	92.2
Slovak Republic	2007	712	73.5	21.7	2.0	1.2	73.5	0.9	0.5	68.6	78.0
	2011	789	76.7	19.5	1.5	1.1	76.7	0.7	0.4	77.3	76.1
Slovenia	2007	615	87.8	7.4	0.9	1.4	87.8	0.6	1.9	87.9	87.7
	2011	650	91.8	3.6	1.4	1.4	91.8	0.9	0.9	93.5	90.0

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

S05_05 (S031001): Life Science / Applying
Label: How tadpoles get in the pond - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	87.6	7.1	2.0	1.5	87.6	1.1	0.8	90.3	84.7
	2011	693	86.3	6.3	2.0	2.4	86.3	2.1	0.9	86.3	86.3
Tunisia	2007	591	38.4	14.2	9.4	11.5	38.4	18.9	7.6	41.2	35.7
	2011	703	38.3	15.9	12.9	9.7	38.3	17.2	5.9	38.4	38.3
United States	2007	1140	83.4	9.7	1.4	2.8	83.4	1.4	1.3	82.2	84.6
	2011	1785	85.9	9.6	1.6	1.3	85.9	1.2	0.4	85.4	86.5
International Avg. (25)	2007	15793	79.7	10.2	3.0	3.0	79.7	2.4	1.6	80.0	79.4
	2011	17537	81.6	9.8	3.3	2.8	81.6	1.9	0.6	82.2	81.0
Alberta, Canada	2007	577	85.5	9.1	1.4	2.0	85.5	1.4	0.5	86.9	84.4
	2011	511	85.7	8.5	1.4	1.1	85.7	2.5	0.7	84.6	86.7
Ontario, Canada	2007	504	83.6	12.8	2.0	1.0	83.6	0.4	0.1	80.4	87.1
	2011	644	84.3	10.0	2.8	1.3	84.3	0.6	1.1	85.2	83.5
Quebec, Canada	2007	564	84.0	6.7	5.1	0.6	84.0	2.4	1.2	87.8	80.6
	2011	609	87.4	8.6	1.5	1.7	87.4	0.9	0.0	88.5	86.3
Dubai, UAE	2007	430	68.3	13.4	7.7	6.7	68.3	2.9	1.0	68.3	68.6
	2011	873	72.9	11.6	6.2	6.4	72.9	2.6	0.3	74.8	71.2

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

S05_07 (S031410): Physical Science / Knowing
Label: Which is a mixture - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	62.6	62.6	15.2	15.6	2.5	1.7	2.4	63.1	62.0
	2011	866	63.8	63.8	16.4	14.8	3.4	1.0	0.6	61.0	66.8
Austria	2007	687	76.0	76.0	4.4	13.9	1.3	4.3	0.0	76.2	75.8
	2011	664	75.0	75.0	6.3	10.9	1.9	6.0	0.0	74.8	75.1
Chinese Taipei	2007	590	67.3	67.3	5.9	22.3	3.0	1.5	0.0	65.0	69.5
	2011	610	76.3	76.3	4.4	15.4	2.7	1.0	0.2	72.2	79.9
Czech Republic	2007	607	48.9	48.9	25.2	9.7	9.4	5.3	1.5	45.3	51.9
	2011	662	46.9	46.9	27.2	9.8	12.7	3.1	0.4	50.0	44.1
Denmark	2007	485	70.5	70.5	4.8	18.1	2.0	1.8	3.0	68.4	72.4
	2011	565	74.9	74.9	4.1	15.0	1.9	3.3	0.8	75.3	74.5
England	2007	630	75.5	75.5	8.1	11.0	2.1	3.0	0.4	78.6	72.4
	2011	493	68.5	68.5	8.9	17.5	2.4	2.1	0.5	67.5	69.5
Georgia	2007	579	69.5	69.5	6.7	7.7	7.8	2.9	5.5	72.3	66.6
	2011	673	79.4	79.4	4.1	7.7	4.5	1.9	2.4	82.3	77.1
Germany	2007	745	75.6	75.6	3.7	14.0	1.3	3.1	2.3	74.9	76.3
	2011	571	70.6	70.6	4.5	17.3	1.9	5.4	0.2	70.3	71.0
Hong Kong SAR	2007	548	60.0	60.0	2.9	28.5	6.3	2.4	0.0	60.5	59.4
	2011	568	59.7	59.7	5.5	27.6	5.1	1.8	0.3	61.6	58.1
Hungary	2007	579	72.8	72.8	6.8	14.5	2.2	2.7	1.0	72.0	73.7
	2011	735	75.3	75.3	7.1	12.0	2.0	2.7	0.8	76.8	74.0
Iran, Islamic Rep. of	2007	540	51.4	51.4	15.5	11.6	10.8	4.0	6.7	53.5	49.2
	2011	819	57.0	57.0	13.3	15.0	9.6	2.3	2.8	55.7	58.2
Italy	2007	640	66.3	66.3	6.7	17.8	3.4	4.3	1.5	64.8	67.5
	2011	612	59.3	59.3	7.7	22.9	4.8	4.9	0.4	57.8	60.8
Japan	2007	629	55.2	55.2	14.2	17.9	9.9	2.6	0.2	53.8	56.5
	2011	627	61.3	61.3	11.2	13.1	11.0	3.1	0.3	65.0	57.8
Kuwait	2007	544	55.6	55.6	10.0	20.8	5.5	4.5	3.6	61.5	49.6
	2011	583	50.9	50.9	12.6	22.8	7.4	4.9	1.3	55.0	45.9
Lithuania	2007	552	69.8	69.8	5.5	16.7	3.4	3.3	1.4	71.2	68.7
	2011	667	65.4	65.4	7.8	16.5	8.2	1.6	0.4	66.4	64.6
Netherlands	2007	480	56.4	56.4	9.1	27.6	5.0	1.3	0.6	54.9	57.7
	2011	444	63.5	63.5	9.0	22.1	3.1	1.8	0.4	61.7	65.5
New Zealand	2007	714	61.2	61.2	12.4	19.0	4.0	2.6	1.0	61.1	61.2
	2011	783	64.5	64.5	13.2	19.0	2.0	1.0	0.3	63.3	65.7
Norway	2007	576	58.7	58.7	5.7	20.1	6.1	5.1	4.1	60.9	56.5
	2011	433	65.1	65.1	4.3	20.1	4.4	5.9	0.3	66.2	64.0
Russian Federation	2007	635	76.7	76.7	6.6	6.5	7.4	1.5	1.3	76.1	77.4
	2011	629	72.6	72.6	9.2	8.8	8.4	0.6	0.4	72.9	72.3
Singapore	2007	716	74.8	74.8	8.5	12.8	3.5	0.3	0.1	73.2	76.2
	2011	913	74.6	74.6	5.6	16.6	3.2	0.1	0.0	76.7	72.6
Slovak Republic	2007	712	43.6	43.6	24.8	11.8	15.5	3.5	0.7	43.3	43.8
	2011	789	52.2	52.2	21.4	9.4	14.0	2.6	0.5	55.1	49.6
Slovenia	2007	615	43.1	43.1	10.7	27.6	12.9	3.3	2.5	39.8	46.2
	2011	642	47.6	47.6	12.6	24.1	11.7	2.2	1.8	48.0	47.2

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

S05_07 (S031410): Physical Science / Knowing
Label: Which is a mixture - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	657	66.1	66.1	5.1	21.9	3.4	1.8	1.7	64.4	68.0
	2011	692	66.5	66.5	5.1	22.6	1.9	3.2	0.9	67.8	65.0
Tunisia	2007	591	33.7	33.7	15.6	16.9	8.1	16.4	9.4	37.9	29.5
	2011	703	34.8	34.8	15.3	16.6	5.5	20.8	7.0	34.9	34.7
United States	2007	1140	71.3	71.3	11.1	11.1	3.7	1.1	1.7	71.3	71.3
	2011	1785	78.5	78.5	8.0	9.0	3.2	0.9	0.4	78.7	78.4
International Avg. (25)	2007	15770	62.5	62.5	9.8	16.6	5.6	3.4	2.1	62.6	62.4
	2011	17528	64.2	64.2	9.8	16.3	5.5	3.4	0.9	64.7	63.7
Alberta, Canada	2007	577	70.0	70.0	7.8	14.8	5.0	1.4	1.0	72.3	68.2
	2011	511	73.5	73.5	7.3	13.7	2.5	1.2	1.8	70.3	76.1
Ontario, Canada	2007	504	74.2	74.2	6.8	12.8	4.1	0.5	1.6	73.5	75.0
	2011	644	70.3	70.3	8.6	15.5	3.6	0.7	1.3	72.8	67.9
Quebec, Canada	2007	564	64.9	64.9	9.7	16.8	4.5	2.5	1.6	71.3	59.2
	2011	609	64.8	64.8	9.8	18.7	5.4	1.3	0.0	68.4	61.3
Dubai, UAE	2007	430	64.7	64.7	7.6	18.3	4.7	3.3	1.4	67.2	62.5
	2011	873	73.8	73.8	7.1	13.6	3.9	1.3	0.3	74.7	73.0

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

S05_08 (S031421): Physical Science / Knowing
Label: Materials that will burn - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	64.2	0.4	0.1	20.3	12.2	0.4	2.4	64.2	58.2	71.5
	2011	866	57.4	0.3	0.1	19.3	22.0	0.2	0.6	57.4	54.1	61.1
Austria	2007	687	86.7	0.1	0.6	8.9	3.1	0.6	0.0	86.7	82.9	90.7
	2011	664	79.8	0.2	0.0	14.5	4.7	0.9	0.0	79.8	77.4	82.1
Chinese Taipei	2007	590	48.0	0.5	0.3	19.9	30.7	0.6	0.0	48.0	46.4	49.6
	2011	610	53.8	0.2	0.2	21.8	23.8	0.0	0.2	53.8	52.0	55.5
Czech Republic	2007	607	86.7	0.1	0.0	3.4	7.0	1.4	1.5	86.7	87.2	86.2
	2011	662	86.0	0.2	0.0	6.3	6.1	1.0	0.4	86.0	85.2	86.8
Denmark	2007	492	69.5	0.3	0.1	10.3	16.6	0.3	2.9	69.5	66.9	72.0
	2011	565	73.4	1.1	0.0	5.0	17.9	1.7	0.8	73.4	70.5	76.3
England	2007	630	61.4	0.1	0.0	22.1	14.6	1.3	0.5	61.4	57.7	65.0
	2011	493	60.1	0.0	0.5	23.1	15.2	0.1	1.0	60.1	56.6	63.3
Georgia	2007	579	42.5	0.5	0.1	2.8	39.7	8.8	5.7	42.5	48.6	36.3
	2011	673	60.6	2.0	1.1	4.3	26.2	3.4	2.4	60.6	61.8	59.8
Germany	2007	745	85.9	0.0	0.0	5.3	5.9	0.4	2.5	85.9	83.8	87.8
	2011	571	86.8	0.0	0.0	8.3	4.6	0.2	0.2	86.8	84.5	89.0
Hong Kong SAR	2007	548	46.7	2.4	0.4	22.8	27.6	0.2	0.0	46.7	47.3	46.2
	2011	568	45.0	1.9	0.8	18.8	32.8	0.3	0.5	45.0	46.8	43.5
Hungary	2007	579	80.9	0.6	0.0	6.3	10.4	0.5	1.2	80.9	81.8	79.8
	2011	736	80.0	0.0	0.3	8.4	9.7	0.7	0.8	80.0	74.9	84.8
Iran, Islamic Rep. of	2007	540	35.1	0.2	0.5	7.6	47.5	2.2	6.9	35.1	30.1	40.5
	2011	819	49.8	0.5	0.5	7.5	37.4	1.2	3.1	49.8	48.0	51.6
Italy	2007	644	69.8	0.0	0.0	5.4	21.2	1.8	1.8	69.8	67.8	71.6
	2011	612	65.5	0.7	1.1	17.1	14.1	0.8	0.6	65.5	60.9	70.2
Japan	2007	629	64.0	0.5	0.3	19.2	15.5	0.3	0.2	64.0	58.5	69.1
	2011	627	68.1	0.6	0.3	18.6	11.8	0.3	0.3	68.1	66.7	69.5
Kuwait	2007	544	25.4	1.0	0.9	1.2	62.2	5.4	3.9	25.4	28.9	21.9
	2011	592	30.1	5.1	5.3	4.7	50.7	1.7	2.3	30.1	35.1	24.2
Lithuania	2007	552	77.8	0.3	0.0	4.5	15.6	0.2	1.5	77.8	78.1	77.5
	2011	667	78.1	0.1	0.0	3.0	16.7	1.6	0.4	78.1	78.3	78.0
Netherlands	2007	480	78.0	0.6	0.0	7.2	13.1	0.4	0.6	78.0	79.0	77.2
	2011	444	73.2	0.0	0.0	9.9	16.3	0.0	0.6	73.2	66.8	80.1
New Zealand	2007	714	51.5	0.1	0.2	22.2	23.2	1.8	1.0	51.5	48.8	53.9
	2011	783	51.1	0.3	0.2	30.1	17.2	0.7	0.4	51.1	46.0	56.3
Norway	2007	576	57.4	0.0	1.7	15.1	20.5	1.1	4.3	57.4	52.6	62.2
	2011	433	62.3	0.5	0.0	17.7	19.0	0.0	0.6	62.3	54.5	70.0
Russian Federation	2007	635	89.2	0.0	0.0	2.6	6.0	0.9	1.3	89.2	89.3	89.2
	2011	629	86.7	0.2	0.0	3.8	8.7	0.2	0.6	86.7	88.3	85.2
Singapore	2007	716	55.6	0.2	1.6	20.0	22.2	0.3	0.1	55.6	52.6	58.2
	2011	913	50.5	0.5	0.1	33.4	15.5	0.1	0.0	50.5	46.1	54.8
Slovak Republic	2007	712	77.6	0.0	0.0	4.4	15.6	1.6	0.7	77.6	75.9	79.2
	2011	789	74.1	0.0	0.9	9.1	15.1	0.2	0.7	74.1	68.8	78.5
Slovenia	2007	615	63.6	0.2	1.0	15.2	16.4	1.2	2.5	63.6	66.3	61.0
	2011	654	63.6	0.7	0.9	15.1	16.4	1.6	1.8	63.6	64.1	63.1

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

S05_08 (S031421): Physical Science / Knowing
Label: Materials that will burn - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	65.5	0.1	0.1	19.5	12.7	0.5	1.7	65.5	63.7	67.4
	2011	692	59.9	0.6	0.0	18.5	18.6	1.2	1.3	59.9	52.6	67.0
Tunisia	2007	591	36.6	2.2	1.3	3.5	44.6	2.4	9.5	36.6	42.2	31.1
	2011	703	43.3	1.0	1.0	4.2	41.1	2.0	7.3	43.3	48.9	38.2
United States	2007	1140	60.3	0.0	0.0	26.3	10.2	1.3	1.9	60.3	54.9	65.6
	2011	1785	56.5	0.0	0.4	27.7	14.0	0.4	1.1	56.5	50.9	62.1
International Avg. (25)	2007	15796	63.2	0.4	0.4	11.8	20.6	1.4	2.2	63.2	62.0	64.4
	2011	17550	63.8	0.7	0.5	14.0	19.0	0.8	1.1	63.8	61.6	66.0
Alberta, Canada	2007	577	62.6	0.5	0.0	20.7	13.7	1.5	1.0	62.6	59.4	65.2
	2011	511	57.7	0.3	0.2	24.1	15.1	0.7	1.9	57.7	51.0	63.2
Ontario, Canada	2007	504	57.8	0.6	0.0	28.8	10.3	0.9	1.6	57.8	51.5	64.7
	2011	644	54.3	0.4	0.0	27.2	16.7	0.1	1.3	54.3	55.5	53.2
Quebec, Canada	2007	564	58.6	1.0	0.1	23.4	13.5	1.7	1.7	58.6	55.8	61.2
	2011	609	60.4	0.1	0.0	19.6	19.4	0.6	0.0	60.4	58.1	62.5
Dubai, UAE	2007	430	42.9	0.4	0.7	16.9	35.1	2.7	1.4	42.9	41.5	44.2
	2011	873	50.4	0.6	0.5	21.2	26.3	0.7	0.3	50.4	46.5	53.8

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

S05_09 (S031298): Physical Science / Applying
Label: Boiled egg in cold water - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	23.4	10.1	23.4	40.0	22.7	1.3	2.5	18.3	29.6
	2011	866	26.1	7.4	26.1	41.1	22.1	2.7	0.6	24.1	28.2
Austria	2007	687	29.0	6.6	29.0	42.6	19.7	2.0	0.1	25.3	32.8
	2011	664	27.1	6.0	27.1	44.5	19.2	3.1	0.0	23.6	30.5
Chinese Taipei	2007	590	36.5	7.3	36.5	24.3	31.0	0.9	0.0	42.4	30.4
	2011	610	42.6	5.1	42.6	22.5	29.0	0.6	0.2	46.0	39.5
Czech Republic	2007	607	22.5	4.3	22.5	45.5	23.4	2.4	1.8	20.7	24.1
	2011	662	28.4	5.5	28.4	38.2	25.2	2.4	0.4	29.5	27.3
Denmark	2007	490	28.1	9.8	28.1	42.1	15.0	2.2	2.9	32.1	24.3
	2011	565	29.0	6.4	29.0	45.6	15.9	2.0	1.1	25.5	32.7
England	2007	630	33.2	4.2	33.2	41.2	16.7	4.0	0.6	33.5	32.9
	2011	493	30.1	6.5	30.1	41.0	19.3	2.0	1.0	25.4	34.5
Georgia	2007	579	41.2	5.6	41.2	27.3	15.6	4.1	6.2	44.4	38.1
	2011	673	38.3	3.5	38.3	32.3	20.6	2.3	2.9	36.5	39.7
Germany	2007	745	28.8	4.9	28.8	45.3	15.5	2.9	2.6	26.7	30.6
	2011	571	28.4	7.6	28.4	45.5	16.7	1.6	0.2	27.7	29.1
Hong Kong SAR	2007	548	41.4	4.6	41.4	30.2	23.0	0.8	0.0	45.5	37.3
	2011	568	43.3	3.9	43.3	27.8	23.5	1.0	0.5	43.0	43.7
Hungary	2007	579	27.7	5.0	27.7	42.8	21.6	1.5	1.4	26.6	29.0
	2011	737	27.3	3.1	27.3	48.8	17.1	2.1	1.5	25.3	29.2
Iran, Islamic Rep. of	2007	540	31.0	7.1	31.0	27.4	23.2	3.7	7.6	29.9	32.3
	2011	819	29.1	7.4	29.1	32.5	23.9	3.5	3.6	29.8	28.4
Italy	2007	642	38.5	5.5	38.5	37.6	14.2	2.0	2.1	39.8	37.4
	2011	612	34.4	3.9	34.4	39.9	18.8	2.3	0.6	31.7	37.2
Japan	2007	629	53.1	4.0	53.1	30.7	10.8	0.8	0.5	60.3	46.3
	2011	627	50.9	2.3	50.9	38.0	8.1	0.4	0.3	55.2	46.7
Kuwait	2007	544	26.1	9.7	26.1	27.7	25.4	6.4	4.7	23.7	28.4
	2011	583	33.7	14.5	33.7	26.4	17.6	5.5	2.4	34.2	33.2
Lithuania	2007	552	34.3	6.0	34.3	42.0	14.8	1.2	1.7	35.1	33.6
	2011	667	37.2	4.5	37.2	40.2	16.2	1.6	0.4	39.8	34.9
Netherlands	2007	480	15.5	8.9	15.5	35.5	38.8	0.3	1.0	14.9	16.1
	2011	444	14.2	4.4	14.2	39.6	39.7	1.5	0.6	12.2	16.3
New Zealand	2007	714	25.9	8.6	25.9	33.3	27.1	4.1	1.1	27.9	24.1
	2011	783	25.7	8.0	25.7	39.7	22.9	3.2	0.6	23.0	28.4
Norway	2007	576	23.3	8.2	23.3	39.0	21.9	3.2	4.4	21.3	25.2
	2011	433	29.3	7.8	29.3	35.3	24.5	2.5	0.6	28.2	30.4
Russian Federation	2007	635	41.5	2.7	41.5	36.9	16.3	1.3	1.3	42.1	40.6
	2011	629	38.6	4.2	38.6	44.7	10.7	1.2	0.6	37.9	39.2
Singapore	2007	716	65.2	7.6	65.2	9.9	16.6	0.6	0.1	68.9	62.0
	2011	913	73.0	7.4	73.0	7.3	12.2	0.1	0.0	75.0	71.0
Slovak Republic	2007	712	39.6	5.4	39.6	37.4	13.9	2.7	1.0	39.2	40.0
	2011	789	42.7	6.0	42.7	37.1	11.7	1.8	0.7	40.4	44.7
Slovenia	2007	615	30.5	3.9	30.5	36.1	25.1	1.9	2.5	30.3	30.7
	2011	653	26.6	5.6	26.6	39.7	25.4	0.7	2.0	28.5	24.6

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

S05_09 (S031298): Physical Science / Applying
Label: Boiled egg in cold water - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	26.5	6.3	26.5	41.7	21.4	2.4	1.8	27.7	25.2
	2011	692	25.6	6.2	25.6	43.2	21.0	2.7	1.3	24.4	26.9
Tunisia	2007	591	25.3	8.1	25.3	23.7	17.1	15.9	9.9	25.1	25.5
	2011	703	25.1	6.5	25.1	26.5	16.8	17.6	7.5	25.1	25.1
United States	2007	1140	35.3	5.9	35.3	31.3	22.2	3.4	2.0	33.1	37.4
	2011	1785	35.5	5.1	35.5	39.0	17.5	1.7	1.2	34.5	36.5

International Avg. (25)	2007	15792	32.9	6.4	32.9	34.9	20.5	2.9	2.4	33.4	32.6
	2011	17541	33.7	6.0	33.7	36.7	19.8	2.6	1.2	33.1	34.3

Alberta, Canada	2007	577	27.8	6.2	27.8	37.2	25.0	2.9	1.0	27.6	27.9
	2011	511	31.6	4.9	31.6	34.2	25.3	1.9	2.1	31.1	32.0
Ontario, Canada	2007	504	25.8	4.4	25.8	34.6	31.4	2.1	1.6	22.4	29.5
	2011	644	25.0	5.6	25.0	39.7	25.8	2.7	1.3	25.9	24.0
Quebec, Canada	2007	564	16.2	7.8	16.2	50.0	21.0	2.8	2.2	15.4	17.0
	2011	609	15.3	6.4	15.3	55.4	18.1	4.8	0.0	18.3	12.4
Dubai, UAE	2007	430	28.6	9.9	28.6	29.4	25.2	5.1	1.7	29.2	28.2
	2011	873	31.0	8.8	31.0	30.5	26.5	3.0	0.3	29.9	31.9

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

S05_10 (S031076): Physical Science / Reasoning
Label: Two carts holding magnets - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	580	41.0	32.6	14.9	9.0	2.5	41.0	33.0	50.6
	2011	866	35.4	35.4	23.0	5.4	0.8	35.4	31.3	39.9
Austria	2007	687	54.0	27.0	6.8	12.1	0.1	54.0	50.1	57.9
	2011	664	47.6	31.7	10.3	10.3	0.1	47.6	44.2	51.0
Chinese Taipei	2007	590	73.8	10.1	10.4	5.7	0.0	73.8	72.5	75.1
	2011	610	76.5	8.5	10.5	4.3	0.2	76.5	73.8	79.0
Czech Republic	2007	607	32.8	34.9	14.3	16.2	1.8	32.8	34.6	31.3
	2011	662	32.4	43.8	12.5	10.1	1.2	32.4	29.7	34.8
Denmark	2007	492	44.5	18.1	21.5	12.8	3.0	44.5	38.5	50.2
	2011	565	41.9	17.4	27.6	12.0	1.1	41.9	40.6	43.2
England	2007	630	58.9	22.5	11.8	6.0	0.8	58.9	58.7	59.1
	2011	493	52.8	26.9	15.6	3.5	1.1	52.8	53.2	52.5
Georgia	2007	580	8.7	31.8	15.9	37.0	6.6	8.7	11.9	5.5
	2011	674	22.9	33.3	18.8	21.8	3.2	22.9	22.6	23.2
Germany	2007	745	47.2	29.2	10.3	10.5	2.7	47.2	42.0	52.0
	2011	571	43.0	30.7	15.9	9.9	0.5	43.0	40.6	45.3
Hong Kong SAR	2007	548	51.3	33.6	12.6	2.1	0.4	51.3	44.2	58.3
	2011	568	49.2	30.0	18.2	2.1	0.5	49.2	44.1	53.5
Hungary	2007	579	38.8	41.0	9.9	8.5	1.8	38.8	37.6	40.3
	2011	736	39.8	42.8	11.0	4.5	1.9	39.8	34.7	44.5
Iran, Islamic Rep. of	2007	541	44.5	10.3	18.3	18.7	8.1	44.5	44.5	44.5
	2011	819	51.2	13.9	16.8	13.9	4.2	51.2	50.2	52.2
Italy	2007	644	25.6	35.5	20.0	16.3	2.6	25.6	19.5	31.0
	2011	612	18.3	43.6	26.4	10.9	0.9	18.3	16.1	20.6
Japan	2007	629	88.1	3.8	5.4	2.2	0.5	88.1	87.5	88.6
	2011	627	87.1	5.8	6.1	0.6	0.5	87.1	88.9	85.3
Kuwait	2007	544	11.0	10.2	29.2	44.0	5.6	11.0	12.6	9.3
	2011	591	39.7	3.8	25.3	27.5	3.6	39.7	49.2	28.5
Lithuania	2007	552	23.9	38.5	22.0	13.8	1.9	23.9	20.0	27.0
	2011	667	26.7	38.4	20.6	13.8	0.6	26.7	24.7	28.4
Netherlands	2007	480	35.8	38.9	20.3	4.0	1.0	35.8	31.1	39.5
	2011	444	34.3	33.8	27.8	3.2	0.9	34.3	31.3	37.6
New Zealand	2007	714	37.9	36.4	18.5	5.7	1.5	37.9	32.6	42.9
	2011	783	33.1	38.9	22.6	4.8	0.6	33.1	30.5	35.8
Norway	2007	576	24.4	26.9	26.5	17.5	4.8	24.4	20.4	28.4
	2011	433	21.5	43.2	26.7	8.1	0.6	21.5	20.2	22.7
Russian Federation	2007	635	46.5	34.7	6.2	11.3	1.3	46.5	41.6	52.2
	2011	629	48.5	35.3	11.3	4.3	0.6	48.5	43.2	53.1
Singapore	2007	716	76.1	7.4	15.0	1.3	0.2	76.1	77.5	74.8
	2011	913	89.8	3.2	5.6	1.4	0.0	89.8	91.3	88.4
Slovak Republic	2007	712	43.1	37.0	9.3	9.2	1.4	43.1	41.3	44.7
	2011	789	37.4	44.6	11.9	5.2	0.8	37.4	35.7	38.9
Slovenia	2007	615	48.3	30.4	12.5	5.9	2.9	48.3	45.4	51.0
	2011	654	47.9	31.0	12.3	6.7	2.1	47.9	43.3	52.5

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

S05_10 (S031076): Physical Science / Reasoning
Label: Two carts holding magnets - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	671	35.6	26.2	19.6	16.4	2.3	35.6	35.4	35.7
	2011	693	35.9	27.6	21.2	13.7	1.5	35.9	35.8	36.1
Tunisia	2007	591	1.3	15.5	31.7	39.0	12.5	1.3	0.5	2.1
	2011	703	1.7	20.2	44.1	23.4	10.6	1.7	1.9	1.6
United States	2007	1140	53.3	23.7	17.2	3.5	2.3	53.3	51.7	54.9
	2011	1785	57.6	24.6	14.0	2.4	1.4	57.6	55.5	59.6

International Avg. (25)	2007	15798	41.8	26.3	16.0	13.1	2.7	41.8	39.4	44.3
	2011	17551	42.9	28.4	18.2	9.0	1.6	42.9	41.3	44.3

Alberta, Canada	2007	577	58.2	19.9	14.6	6.1	1.1	58.2	64.2	53.3
	2011	511	63.8	19.7	12.0	2.4	2.1	63.8	61.7	65.6
Ontario, Canada	2007	504	68.9	14.0	7.6	6.9	2.4	68.9	67.2	70.9
	2011	644	49.7	23.8	20.8	4.0	1.6	49.7	50.1	49.4
Quebec, Canada	2007	564	30.0	34.1	19.0	14.6	2.4	30.0	32.5	27.6
	2011	609	32.1	47.1	14.2	5.6	0.9	32.1	33.2	31.0
Dubai, UAE	2007	430	40.6	20.4	15.7	21.4	1.9	40.6	43.7	37.9
	2011	873	32.6	28.2	23.4	14.6	1.2	32.6	36.5	29.1

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

S05_11 (S031275): Earth Science / Applying
Label: Explanation for day and night - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	578	24.2	21.1	48.3	24.2	3.0	0.7	2.7	19.0	30.5
	2011	866	29.8	25.7	39.9	29.8	2.1	1.4	1.1	25.1	34.8
Austria	2007	687	42.8	16.7	34.8	42.8	2.1	3.5	0.2	40.2	45.5
	2011	664	44.1	20.5	29.0	44.1	2.9	2.6	0.9	40.1	48.0
Chinese Taipei	2007	590	24.8	16.9	55.7	24.8	0.9	0.6	1.0	18.4	31.3
	2011	610	36.1	21.4	40.1	36.1	0.9	1.2	0.2	29.8	41.8
Czech Republic	2007	607	44.2	14.6	29.0	44.2	7.9	1.6	2.8	46.2	42.5
	2011	662	58.2	13.5	21.1	58.2	5.5	0.1	1.6	55.2	60.9
Denmark	2007	491	21.4	22.7	49.0	21.4	2.2	1.2	3.6	20.4	22.2
	2011	565	27.2	26.0	38.8	27.2	3.7	2.6	1.7	24.4	30.0
England	2007	630	47.5	11.5	37.7	47.5	1.0	1.0	1.3	40.8	54.2
	2011	493	36.8	19.1	39.7	36.8	1.5	1.5	1.4	36.9	36.6
Georgia	2007	580	34.5	16.1	34.4	34.5	5.1	2.3	7.6	38.1	30.8
	2011	674	37.0	12.7	39.6	37.0	3.4	2.7	4.6	38.4	35.9
Germany	2007	745	32.7	20.9	37.6	32.7	1.4	4.1	3.3	28.2	36.7
	2011	571	46.2	24.7	24.0	46.2	1.5	3.0	0.6	44.6	47.9
Hong Kong SAR	2007	548	40.2	9.4	47.3	40.2	2.3	0.3	0.4	38.5	41.9
	2011	568	42.9	19.6	34.5	42.9	1.7	0.7	0.6	39.2	46.1
Hungary	2007	579	31.9	18.8	38.6	31.9	1.7	5.8	3.2	28.5	36.1
	2011	737	39.3	19.1	33.8	39.3	2.7	2.8	2.4	35.2	43.0
Iran, Islamic Rep. of	2007	541	15.6	23.2	41.7	15.6	5.0	2.4	12.2	13.8	17.6
	2011	819	23.9	17.0	47.0	23.9	4.0	2.7	5.5	17.8	29.5
Italy	2007	638	19.5	18.2	56.3	19.5	1.0	0.7	4.2	18.2	20.5
	2011	612	23.4	20.4	51.9	23.4	1.9	0.9	1.4	21.4	25.5
Japan	2007	629	25.0	15.3	51.3	25.0	5.2	2.6	0.6	22.8	27.1
	2011	627	28.3	22.1	41.8	28.3	5.3	2.0	0.6	27.1	29.4
Kuwait	2007	544	14.5	21.7	45.0	14.5	4.9	4.6	9.4	12.1	16.8
	2011	585	28.6	14.5	42.9	28.6	4.8	4.6	4.5	35.0	21.0
Lithuania	2007	552	54.0	6.3	30.4	54.0	4.8	1.8	2.7	49.6	57.5
	2011	667	52.3	13.5	27.9	52.3	4.0	1.7	0.7	45.6	58.1
Netherlands	2007	480	19.0	19.8	56.5	19.0	2.7	0.9	1.1	17.2	20.4
	2011	444	24.6	26.0	44.9	24.6	2.0	1.6	0.9	22.9	26.5
New Zealand	2007	714	22.8	21.0	49.4	22.8	3.3	1.6	2.0	19.9	25.4
	2011	783	21.6	35.0	37.3	21.6	4.4	0.9	0.8	16.0	27.3
Norway	2007	576	19.0	18.4	53.3	19.0	0.5	2.5	6.2	17.1	20.9
	2011	433	14.1	24.7	55.6	14.1	2.5	2.0	1.0	8.0	20.2
Russian Federation	2007	635	47.7	9.6	36.6	47.7	2.9	1.1	2.1	44.6	51.3
	2011	629	54.3	8.3	33.0	54.3	3.1	0.4	0.9	55.3	53.4
Singapore	2007	716	29.9	20.3	43.8	29.9	5.6	0.2	0.2	26.4	32.9
	2011	913	29.2	25.7	40.4	29.2	4.4	0.3	0.0	25.1	33.1
Slovak Republic	2007	712	56.3	8.8	28.1	56.3	3.5	1.1	2.2	53.8	58.6
	2011	789	58.4	10.7	23.2	58.4	5.0	1.6	1.0	55.9	60.6
Slovenia	2007	615	33.9	15.7	41.7	33.9	3.4	1.8	3.6	28.5	39.0
	2011	650	46.0	14.3	33.2	46.0	2.8	1.4	2.3	44.6	47.4

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

S05_11 (S031275): Earth Science / Applying
Label: Explanation for day and night - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	32.8	17.0	45.2	32.8	1.2	1.0	2.8	33.6	31.8
	2011	692	30.2	21.7	42.4	30.2	1.6	2.1	2.1	25.9	34.4
Tunisia	2007	591	14.1	20.8	29.0	14.1	6.4	13.8	16.0	8.8	19.2
	2011	703	18.4	23.8	22.5	18.4	6.8	16.3	12.2	15.7	20.9
United States	2007	1140	38.6	15.6	37.4	38.6	4.1	1.8	2.6	33.3	43.7
	2011	1785	32.1	20.3	41.2	32.1	3.2	1.3	2.0	28.7	35.6
International Avg. (25)	2007	15787	31.5	16.8	42.3	31.5	3.3	2.4	3.8	28.7	34.2
	2011	17541	35.3	20.0	37.0	35.3	3.3	2.3	2.0	32.5	37.9
Alberta, Canada	2007	577	24.1	23.6	46.4	24.1	1.9	2.1	1.8	18.8	28.6
	2011	511	22.0	32.0	39.1	22.0	2.9	1.6	2.4	15.9	27.1
Ontario, Canada	2007	504	26.2	24.0	40.4	26.2	3.1	2.1	4.2	24.8	27.9
	2011	644	20.8	31.3	41.2	20.8	3.6	0.9	2.4	18.7	22.7
Quebec, Canada	2007	564	20.3	14.8	54.7	20.3	2.2	3.8	4.2	17.3	23.0
	2011	609	27.5	22.9	45.6	27.5	1.6	1.1	1.3	27.4	27.5
Dubai, UAE	2007	430	32.6	11.5	46.9	32.6	3.4	3.3	2.4	32.6	32.6
	2011	873	38.3	14.9	39.9	38.3	4.3	0.9	1.6	37.3	39.2

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

S06_01 (S041311): Physical Science / Applying
Label: Thermometer reading hottest water - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	96.0	0.3	96.0	2.0	1.0	0.5	0.2	96.1	95.8
	2011	867	92.9	1.0	92.9	3.7	1.9	0.4	0.1	92.0	93.8
Austria	2007	695	96.5	0.3	96.5	1.0	0.3	1.9	0.0	96.8	96.2
	2011	661	96.7	0.3	96.7	1.4	0.4	1.2	0.0	97.4	96.0
Chinese Taipei	2007	589	96.8	0.5	96.8	2.1	0.3	0.4	0.0	97.2	96.4
	2011	612	97.6	0.2	97.6	1.0	0.3	0.9	0.0	98.2	97.1
Czech Republic	2007	608	90.3	1.5	90.3	5.6	1.8	0.7	0.0	90.8	89.9
	2011	647	92.4	0.5	92.4	3.9	3.2	0.1	0.0	93.8	90.9
Denmark	2007	484	97.1	0.0	97.1	1.3	0.5	1.1	0.0	96.9	97.3
	2011	556	94.1	0.2	94.1	1.7	0.3	3.5	0.2	95.4	92.9
England	2007	613	94.4	0.1	94.4	3.1	1.1	1.3	0.0	96.0	92.9
	2011	490	92.5	0.5	92.5	4.7	1.2	1.1	0.0	91.5	93.6
Georgia	2007	587	94.1	0.2	94.1	1.9	0.8	2.7	0.4	94.8	93.4
	2011	686	93.3	0.8	93.3	2.9	1.6	1.4	0.0	95.2	91.8
Germany	2007	742	95.9	0.2	95.9	0.7	1.6	1.5	0.0	96.5	95.3
	2011	573	94.8	0.4	94.8	1.1	1.9	1.8	0.0	95.2	94.4
Hong Kong SAR	2007	539	97.3	0.5	97.3	1.2	0.8	0.2	0.0	98.5	96.0
	2011	568	95.2	1.3	95.2	1.2	1.7	0.7	0.0	94.9	95.4
Hungary	2007	574	95.6	0.5	95.6	1.8	0.4	1.5	0.1	96.7	94.5
	2011	745	97.2	0.6	97.2	1.2	0.5	0.3	0.1	97.8	96.8
Iran, Islamic Rep. of	2007	550	79.2	1.8	79.2	11.9	2.3	4.7	0.0	80.5	77.8
	2011	818	79.1	1.9	79.1	14.5	1.5	2.6	0.4	78.2	80.0
Italy	2007	645	94.8	0.5	94.8	3.1	0.3	1.2	0.0	95.0	94.6
	2011	595	95.3	0.3	95.3	2.1	0.1	2.2	0.0	96.1	94.5
Japan	2007	643	97.6	0.0	97.6	1.8	0.1	0.5	0.0	97.3	97.9
	2011	637	96.9	0.3	96.9	2.2	0.4	0.2	0.0	96.3	97.6
Kuwait	2007	537	76.9	3.5	76.9	6.4	2.8	9.2	1.2	78.7	74.9
	2011	584	78.8	2.8	78.8	10.4	2.8	4.9	0.2	82.4	74.6
Lithuania	2007	559	96.8	0.6	96.8	1.3	1.0	0.4	0.0	98.6	95.3
	2011	678	96.2	1.3	96.2	2.1	0.1	0.3	0.0	96.0	96.4
Netherlands	2007	479	97.9	0.3	97.9	1.0	0.5	0.3	0.0	99.0	97.0
	2011	452	98.2	0.2	98.2	0.7	0.7	0.2	0.0	98.3	98.1
New Zealand	2007	702	92.3	0.3	92.3	4.0	1.5	1.8	0.0	92.9	91.8
	2011	792	93.5	0.2	93.5	3.7	1.2	1.5	0.0	95.2	91.9
Norway	2007	586	88.9	1.7	88.9	3.0	1.9	4.7	0.0	87.6	90.3
	2011	423	91.2	1.0	91.2	1.7	0.8	5.4	0.0	92.5	90.0
Russian Federation	2007	632	97.7	0.2	97.7	1.6	0.3	0.1	0.0	98.3	97.1
	2011	639	97.3	0.0	97.3	1.7	0.9	0.2	0.0	96.5	97.9
Singapore	2007	712	96.4	0.4	96.4	1.7	1.0	0.5	0.0	96.3	96.4
	2011	913	96.9	0.3	96.9	1.5	0.6	0.7	0.0	97.4	96.4
Slovak Republic	2007	711	94.6	0.1	94.6	3.7	0.8	0.9	0.0	93.4	95.7
	2011	786	97.3	0.4	97.3	1.3	0.2	0.8	0.1	96.8	97.6
Slovenia	2007	625	95.5	0.9	95.5	1.7	1.3	0.6	0.0	96.1	94.9
	2011	646	95.7	0.2	95.7	2.5	0.7	0.6	0.2	95.2	96.3

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

S06_01 (S041311): Physical Science / Applying
Label: Thermometer reading hottest water - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	97.2	0.4	97.2	1.3	0.3	0.8	0.0	97.3	97.2
	2011	680	96.3	0.1	96.3	1.0	0.4	2.3	0.0	94.3	98.2
Tunisia	2007	590	71.9	3.0	71.9	5.8	3.1	15.7	0.4	80.4	64.1
	2011	694	76.1	2.6	76.1	5.3	3.0	13.0	0.1	77.8	74.4
United States	2007	1138	93.9	1.0	93.9	3.3	0.7	1.1	0.0	93.4	94.5
	2011	1798	94.2	0.9	94.2	2.9	0.8	1.3	0.0	93.7	94.7

International Avg. (25)	2007	15790	93.0	0.7	93.0	2.9	1.1	2.2	0.1	93.8	92.3
	2011	17540	93.2	0.7	93.2	3.0	1.1	1.9	0.1	93.5	92.9

Alberta, Canada	2007	571	94.1	0.2	94.1	3.6	0.4	1.5	0.2	94.7	93.6
	2011	517	92.9	0.4	92.9	4.5	1.3	1.0	0.0	92.3	93.3
Ontario, Canada	2007	500	92.4	2.3	92.4	2.7	0.5	1.1	0.9	94.1	90.9
	2011	639	93.8	0.4	93.8	4.4	0.8	0.5	0.0	94.7	93.0
Quebec, Canada	2007	562	90.2	0.7	90.2	4.9	0.4	3.8	0.0	89.5	90.7
	2011	603	92.7	0.0	92.7	5.5	0.8	1.0	0.0	91.1	94.3
Dubai, UAE	2007	436	81.6	3.8	81.6	5.5	2.1	6.7	0.2	84.6	78.9
	2011	888	87.5	1.1	87.5	6.3	1.4	3.5	0.2	88.4	86.7

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

S06_02 (S041178): Life Science / Knowing
Label: What plants use energy for - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	28.3	28.3	27.9	37.5	4.7	1.4	0.2	26.0	31.4
	2011	867	28.7	28.7	32.8	34.3	2.8	1.3	0.1	25.7	32.0
Austria	2007	695	29.8	29.8	27.5	32.5	6.7	3.4	0.0	25.7	34.4
	2011	661	27.6	27.6	29.4	31.0	9.3	2.7	0.0	26.4	28.8
Chinese Taipei	2007	589	81.5	81.5	3.5	10.5	4.1	0.4	0.0	79.6	83.2
	2011	612	85.1	85.1	4.9	8.0	1.6	0.4	0.0	82.3	87.7
Czech Republic	2007	608	64.3	64.3	22.4	7.4	3.3	2.5	0.0	64.8	63.9
	2011	647	69.8	69.8	16.9	9.4	1.9	2.0	0.1	71.0	68.5
Denmark	2007	483	8.6	8.6	51.4	32.7	6.2	1.0	0.0	7.9	9.5
	2011	556	8.4	8.4	50.1	32.6	5.2	3.5	0.2	10.0	6.9
England	2007	613	51.3	51.3	24.8	20.1	2.2	1.6	0.0	47.3	55.2
	2011	490	45.7	45.7	23.7	25.7	4.1	0.9	0.0	45.0	46.3
Georgia	2007	587	31.4	31.4	8.0	46.3	11.1	2.5	0.6	31.9	30.8
	2011	686	32.3	32.3	11.7	44.1	10.3	1.7	0.0	33.2	31.6
Germany	2007	742	35.1	35.1	25.7	29.4	7.3	2.5	0.0	32.2	38.0
	2011	573	29.6	29.6	30.3	28.7	7.5	3.9	0.0	28.3	30.8
Hong Kong SAR	2007	539	87.8	87.8	3.0	4.0	4.6	0.7	0.0	85.4	90.2
	2011	568	87.5	87.5	2.9	6.2	2.8	0.6	0.0	86.2	88.4
Hungary	2007	574	61.2	61.2	14.1	8.8	12.9	2.8	0.1	59.7	62.8
	2011	745	68.3	68.3	12.2	9.2	8.6	1.6	0.1	70.5	66.5
Iran, Islamic Rep. of	2007	550	67.0	67.0	8.6	10.5	9.4	4.4	0.0	67.5	66.4
	2011	818	70.6	70.6	6.8	12.0	7.4	2.6	0.5	68.7	72.3
Italy	2007	643	61.7	61.7	6.4	24.0	6.0	1.9	0.0	59.1	64.1
	2011	595	62.8	62.8	6.7	23.8	5.6	1.1	0.0	61.6	64.1
Japan	2007	643	87.9	87.9	1.3	6.2	3.9	0.6	0.0	88.9	86.9
	2011	637	84.9	84.9	2.0	6.7	5.7	0.8	0.0	83.6	86.1
Kuwait	2007	537	49.3	49.3	13.7	17.2	10.5	8.0	1.2	55.6	42.4
	2011	583	66.6	66.6	11.8	9.0	7.0	5.4	0.2	74.1	57.7
Lithuania	2007	559	48.3	48.3	29.2	11.3	8.3	3.0	0.0	44.0	51.8
	2011	678	49.0	49.0	19.3	21.3	9.3	1.1	0.0	47.5	50.2
Netherlands	2007	479	54.3	54.3	24.7	12.2	8.5	0.3	0.0	56.0	52.9
	2011	452	42.3	42.3	35.3	11.9	8.6	1.9	0.0	42.4	42.2
New Zealand	2007	702	31.6	31.6	27.3	34.7	5.1	1.3	0.0	29.3	33.5
	2011	792	28.9	28.9	29.3	35.3	4.7	1.8	0.0	29.3	28.7
Norway	2007	586	7.8	7.8	47.8	30.4	11.6	2.5	0.0	7.0	8.7
	2011	423	8.8	8.8	51.0	27.9	10.9	1.5	0.0	5.2	12.1
Russian Federation	2007	632	57.4	57.4	16.2	19.1	6.1	1.2	0.0	56.8	58.1
	2011	639	60.9	60.9	15.5	18.3	4.8	0.4	0.0	61.3	60.6
Singapore	2007	712	93.3	93.3	1.4	4.1	0.8	0.4	0.0	93.5	93.2
	2011	913	88.5	88.5	3.6	7.0	0.7	0.2	0.0	88.8	88.2
Slovak Republic	2007	711	30.8	30.8	26.6	32.9	6.2	3.4	0.0	30.8	30.9
	2011	786	35.0	35.0	27.8	30.8	5.2	1.1	0.1	32.9	36.9
Slovenia	2007	625	35.1	35.1	44.8	6.9	11.8	1.4	0.0	34.0	36.1
	2011	646	41.6	41.6	40.8	8.2	7.7	1.5	0.2	44.4	38.8

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

S06_02 (S041178): Life Science / Knowing
Label: What plants use energy for - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	673	15.9	15.9	36.8	40.6	5.4	1.4	0.0	15.7	16.0
	2011	680	13.9	13.9	30.8	48.3	4.3	2.7	0.0	14.8	12.9
Tunisia	2007	590	21.4	21.4	22.7	22.8	17.1	15.6	0.5	19.9	22.7
	2011	689	21.2	21.2	22.4	27.8	16.8	11.7	0.1	22.9	19.4
United States	2007	1138	53.5	53.5	16.6	26.1	2.4	1.4	0.0	50.0	56.9
	2011	1798	60.1	60.1	13.6	23.3	2.1	0.9	0.0	57.1	63.2
International Avg. (25)	2007	15785	47.8	47.8	21.3	21.1	7.0	2.6	0.1	46.7	48.8
	2011	17534	48.7	48.7	21.3	21.6	6.2	2.1	0.1	48.5	48.8
Alberta, Canada	2007	571	42.6	42.6	24.0	27.1	3.8	2.4	0.2	37.0	47.9
	2011	517	42.1	42.1	19.9	34.0	2.9	1.2	0.0	36.9	46.0
Ontario, Canada	2007	500	57.2	57.2	15.0	22.3	3.5	1.1	0.9	58.1	56.4
	2011	639	59.1	59.1	11.3	26.4	2.7	0.5	0.0	57.9	60.3
Quebec, Canada	2007	562	17.9	17.9	41.0	32.4	5.7	3.0	0.0	18.5	17.4
	2011	603	24.4	24.4	35.7	35.7	2.5	1.7	0.0	22.9	25.7
Dubai, UAE	2007	436	68.8	68.8	7.9	14.5	4.3	4.2	0.3	63.2	73.8
	2011	888	69.9	69.9	11.1	15.6	1.9	1.2	0.3	67.3	72.3

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

S06_03 (S041182): Life Science / Applying
Label: One thing to avoid flu - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	35.6	57.7	6.5	0.2	35.6	38.2	32.1
	2011	867	45.7	48.4	5.8	0.1	45.7	48.7	42.6
Austria	2007	695	30.7	53.5	15.7	0.0	30.7	28.3	33.4
	2011	661	34.9	52.4	12.8	0.0	34.9	33.7	36.0
Chinese Taipei	2007	589	67.6	27.9	4.6	0.0	67.6	68.1	67.1
	2011	612	75.3	20.3	4.4	0.0	75.3	76.0	74.6
Czech Republic	2007	608	22.0	62.3	15.5	0.2	22.0	20.6	23.4
	2011	647	32.5	58.9	8.5	0.1	32.5	34.9	30.0
Denmark	2007	483	42.1	42.3	15.5	0.0	42.1	41.5	42.8
	2011	556	44.1	47.6	8.2	0.2	44.1	46.7	41.5
England	2007	613	44.4	50.3	5.2	0.0	44.4	48.0	41.0
	2011	490	46.0	47.8	6.2	0.0	46.0	45.8	46.2
Georgia	2007	587	19.7	47.1	32.1	1.1	19.7	23.7	15.5
	2011	686	49.1	31.3	19.4	0.1	49.1	54.2	45.2
Germany	2007	742	39.0	50.3	10.7	0.0	39.0	38.2	39.8
	2011	573	37.2	51.6	11.2	0.0	37.2	37.2	37.2
Hong Kong SAR	2007	539	64.7	33.0	2.3	0.0	64.7	65.4	63.9
	2011	568	55.3	40.4	4.3	0.0	55.3	59.9	52.0
Hungary	2007	574	22.9	69.3	7.7	0.1	22.9	20.2	25.7
	2011	745	38.7	57.4	3.8	0.1	38.7	40.4	37.3
Iran, Islamic Rep. of	2007	550	59.2	26.1	14.6	0.1	59.2	64.9	52.8
	2011	818	48.1	40.9	10.4	0.5	48.1	51.4	45.2
Italy	2007	645	62.1	29.2	8.7	0.0	62.1	67.1	57.3
	2011	595	22.6	69.6	7.8	0.0	22.6	22.5	22.8
Japan	2007	643	88.1	11.0	0.9	0.0	88.1	91.0	85.3
	2011	637	92.8	6.9	0.3	0.0	92.8	93.9	91.7
Kuwait	2007	537	12.8	35.4	50.4	1.5	12.8	16.2	8.9
	2011	588	9.1	47.0	43.3	0.6	9.1	10.1	7.9
Lithuania	2007	559	39.9	53.1	7.0	0.0	39.9	43.0	37.3
	2011	678	52.7	41.1	6.2	0.0	52.7	55.4	50.4
Netherlands	2007	479	33.0	64.2	2.7	0.0	33.0	32.7	33.3
	2011	452	41.2	55.6	3.3	0.0	41.2	41.8	40.5
New Zealand	2007	702	38.7	55.5	5.8	0.0	38.7	43.5	34.9
	2011	792	40.0	54.3	5.6	0.0	40.0	40.8	39.4
Norway	2007	586	41.8	47.8	10.3	0.1	41.8	41.5	42.1
	2011	423	48.4	46.4	5.2	0.0	48.4	51.4	45.6
Russian Federation	2007	632	58.6	36.5	4.9	0.0	58.6	60.5	56.6
	2011	639	77.2	19.2	3.6	0.0	77.2	78.4	76.3
Singapore	2007	712	60.8	37.6	1.6	0.0	60.8	64.3	57.8
	2011	913	66.5	32.2	1.3	0.0	66.5	70.2	62.9
Slovak Republic	2007	711	27.4	63.3	9.3	0.0	27.4	25.6	29.0
	2011	786	34.9	57.8	7.2	0.1	34.9	36.5	33.5
Slovenia	2007	625	28.5	64.4	7.1	0.0	28.5	32.7	24.5
	2011	647	37.9	51.2	10.7	0.2	37.9	43.4	32.2

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

S06_03 (S041182): Life Science / Applying
Label: One thing to avoid flu - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	37.4	54.0	8.6	0.0	37.4	40.8	34.1
	2011	680	43.4	50.7	5.9	0.0	43.4	49.6	37.5
Tunisia	2007	590	15.1	62.5	21.6	0.8	15.1	14.8	15.5
	2011	701	17.7	64.7	17.5	0.1	17.7	18.9	16.4
United States	2007	1138	50.7	45.7	3.6	0.0	50.7	53.5	47.9
	2011	1798	60.7	37.2	2.1	0.0	60.7	61.9	59.5
International Avg. (25)	2007	15789	41.7	47.2	10.9	0.2	41.7	43.4	40.1
	2011	17552	46.1	45.2	8.6	0.1	46.1	48.1	44.2
Alberta, Canada	2007	571	48.7	46.6	4.5	0.2	48.7	48.5	48.9
	2011	517	52.2	44.4	3.4	0.0	52.2	57.1	48.5
Ontario, Canada	2007	500	44.0	50.6	4.5	0.9	44.0	53.1	35.7
	2011	639	52.3	44.6	3.1	0.0	52.3	53.7	50.9
Quebec, Canada	2007	562	54.7	37.9	7.4	0.0	54.7	57.4	52.5
	2011	603	55.2	41.5	3.4	0.0	55.2	60.4	50.4
Dubai, UAE	2007	436	16.0	57.5	26.2	0.3	16.0	11.4	20.1
	2011	888	30.1	51.5	18.2	0.3	30.1	31.6	28.7

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

S06_04 (S041180): Life Science / Applying

Label: Correct predator-prey relationship - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	56.9	7.9	16.1	56.9	16.1	2.8	0.2	59.4	53.5
	2011	867	57.0	9.4	13.7	57.0	18.3	1.5	0.2	53.0	61.1
Austria	2007	695	64.9	9.4	8.8	64.9	12.8	4.0	0.0	61.0	69.3
	2011	661	65.7	7.8	10.6	65.7	12.6	3.3	0.0	62.7	68.5
Chinese Taipei	2007	589	68.8	7.5	11.5	68.8	11.4	0.7	0.0	67.9	69.7
	2011	612	74.1	3.7	10.3	74.1	11.3	0.6	0.0	68.4	79.2
Czech Republic	2007	609	70.4	9.7	6.7	70.4	9.3	3.7	0.2	67.1	73.6
	2011	647	81.1	4.9	6.4	81.1	6.6	1.0	0.1	79.7	82.6
Denmark	2007	484	51.5	8.4	11.5	51.5	23.6	5.0	0.0	46.4	57.0
	2011	556	49.4	12.8	11.2	49.4	21.9	4.5	0.2	46.8	52.0
England	2007	613	62.5	9.9	10.9	62.5	16.1	0.6	0.0	59.9	65.0
	2011	490	61.8	11.3	11.1	61.8	14.3	1.5	0.0	58.8	64.9
Georgia	2007	588	29.1	10.7	20.2	29.1	31.5	6.9	1.7	33.0	25.0
	2011	686	36.6	9.3	16.1	36.6	31.9	6.0	0.1	37.3	36.1
Germany	2007	742	66.0	7.8	12.4	66.0	10.7	3.0	0.0	65.4	66.6
	2011	573	71.5	8.1	7.2	71.5	11.1	2.1	0.0	66.8	76.2
Hong Kong SAR	2007	539	73.4	3.9	12.1	73.4	9.5	1.0	0.0	69.0	78.1
	2011	568	75.0	5.6	9.1	75.0	9.7	0.6	0.0	72.4	77.0
Hungary	2007	574	65.9	5.6	12.9	65.9	12.0	3.4	0.1	63.3	68.5
	2011	745	68.8	5.3	9.3	68.8	14.2	2.4	0.1	70.4	67.4
Iran, Islamic Rep. of	2007	550	28.1	12.3	13.6	28.1	36.5	9.0	0.5	24.0	32.7
	2011	818	38.3	10.8	11.8	38.3	35.7	2.8	0.5	34.5	41.7
Italy	2007	638	73.9	7.7	7.3	73.9	9.5	1.5	0.0	69.3	78.3
	2011	595	73.3	5.2	6.3	73.3	13.3	1.8	0.0	75.4	71.2
Japan	2007	643	81.5	7.8	6.2	81.5	1.9	2.6	0.0	80.3	82.7
	2011	637	77.4	7.0	9.7	77.4	4.1	1.9	0.0	76.6	78.2
Kuwait	2007	537	33.8	14.6	16.4	33.8	19.6	13.2	2.4	34.1	33.5
	2011	576	31.6	13.6	16.7	31.6	21.5	16.4	0.2	30.2	33.2
Lithuania	2007	559	77.7	4.9	6.2	77.7	7.1	4.0	0.0	81.0	75.0
	2011	678	71.2	6.5	9.3	71.2	12.0	1.0	0.0	67.5	74.3
Netherlands	2007	479	61.4	8.1	15.5	61.4	12.9	2.1	0.0	60.9	61.8
	2011	452	71.1	7.4	11.8	71.1	8.4	1.2	0.0	68.2	74.2
New Zealand	2007	702	54.4	10.1	12.9	54.4	19.6	3.0	0.0	52.7	55.7
	2011	792	51.0	9.9	12.9	51.0	24.7	1.6	0.0	50.0	51.9
Norway	2007	586	38.9	13.1	13.3	38.9	27.5	7.2	0.1	36.5	41.6
	2011	423	31.0	12.9	16.2	31.0	36.4	3.5	0.0	27.3	34.5
Russian Federation	2007	632	77.7	6.5	6.3	77.7	7.7	1.8	0.0	74.0	81.6
	2011	639	83.1	5.0	4.0	83.1	7.0	0.9	0.0	85.8	81.0
Singapore	2007	712	64.4	10.3	9.7	64.4	15.4	0.2	0.0	62.9	65.7
	2011	913	64.1	11.0	10.1	64.1	14.3	0.4	0.0	60.9	67.2
Slovak Republic	2007	711	59.9	10.2	9.9	59.9	15.5	4.6	0.0	58.3	61.4
	2011	786	66.0	8.6	10.0	66.0	13.7	1.6	0.1	62.4	69.2
Slovenia	2007	625	52.4	9.1	14.7	52.4	20.9	2.7	0.2	48.8	55.7
	2011	642	59.9	8.2	13.3	59.9	16.5	2.0	0.2	60.9	58.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S06_04 (S041180): Life Science / Applying
Label: Correct predator-prey relationship - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	672	63.3	8.6	9.0	63.3	16.4	2.7	0.0	63.9	62.6
	2011	680	62.3	10.4	9.5	62.3	14.7	3.0	0.0	60.4	64.3
Tunisia	2007	590	32.5	7.5	16.8	32.5	14.2	28.2	0.9	29.5	35.2
	2011	669	41.5	8.6	15.4	41.5	14.8	19.1	0.6	39.2	43.8
United States	2007	1138	63.1	8.3	13.2	63.1	15.1	0.3	0.1	57.8	68.2
	2011	1798	66.4	9.3	10.5	66.4	13.0	0.7	0.1	60.8	72.2
International Avg. (25)	2007	15782	58.9	8.8	11.8	58.9	15.7	4.6	0.3	57.1	60.7
	2011	17503	61.2	8.5	10.9	61.2	16.1	3.3	0.1	59.1	63.2
Alberta, Canada	2007	571	54.8	12.0	15.5	54.8	15.2	2.4	0.2	48.3	61.0
	2011	517	63.5	5.6	13.1	63.5	17.3	0.5	0.0	65.1	62.3
Ontario, Canada	2007	500	59.8	6.9	15.1	59.8	16.0	1.2	0.9	57.1	62.2
	2011	639	58.1	10.7	13.6	58.1	16.2	1.3	0.1	50.4	65.7
Quebec, Canada	2007	562	56.6	9.1	9.5	56.6	22.1	2.7	0.0	56.1	57.0
	2011	603	65.3	7.5	9.7	65.3	16.2	1.4	0.0	61.9	68.4
Dubai, UAE	2007	436	51.3	9.1	14.9	51.3	18.0	6.3	0.3	53.1	49.7
	2011	888	46.8	11.8	15.2	46.8	21.8	4.0	0.5	41.5	51.5

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

S06_05 (S041187): Physical Science / Knowing
Label: Describes condensation - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	27.1	27.6	26.9	14.6	27.1	3.5	0.2	23.8	31.7
	2011	867	31.7	24.2	26.2	15.9	31.7	1.8	0.2	31.6	31.8
Austria	2007	695	17.0	35.3	22.7	11.8	17.0	13.1	0.0	15.3	19.0
	2011	661	17.7	32.5	24.3	14.6	17.7	11.0	0.0	16.1	19.2
Chinese Taipei	2007	589	8.1	80.3	7.8	3.5	8.1	0.3	0.0	6.3	9.8
	2011	612	11.5	77.9	6.4	3.9	11.5	0.3	0.0	8.9	13.9
Czech Republic	2007	609	26.0	27.7	37.4	3.5	26.0	5.1	0.2	27.3	24.8
	2011	647	31.2	20.4	39.8	4.1	31.2	4.4	0.1	27.8	34.7
Denmark	2007	484	24.2	22.7	16.8	21.6	24.2	14.7	0.0	23.3	25.3
	2011	556	22.8	30.0	17.3	17.8	22.8	11.7	0.3	22.6	23.1
England	2007	613	48.7	12.9	20.0	16.1	48.7	2.3	0.0	46.7	50.7
	2011	490	41.7	15.5	23.1	15.9	41.7	3.8	0.0	36.9	46.5
Georgia	2007	588	32.9	23.9	16.1	11.1	32.9	14.4	1.7	34.8	30.8
	2011	686	25.4	24.0	22.1	17.0	25.4	11.3	0.2	27.4	23.7
Germany	2007	742	21.4	29.3	22.8	18.2	21.4	8.4	0.0	16.3	26.4
	2011	573	21.0	29.0	21.1	20.0	21.0	8.8	0.0	18.3	23.6
Hong Kong SAR	2007	.	.	.	.	.	.	.	.	.	.
	2011	.	.	.	.	.	.	.	.	.	.
Hungary	2007	574	31.4	18.4	29.7	16.1	31.4	4.2	0.3	24.5	38.6
	2011	745	29.7	20.2	32.4	15.6	29.7	2.0	0.1	24.8	34.0
Iran, Islamic Rep. of	2007	.	.	.	.	.	.	.	.	.	.
	2011	.	.	.	.	.	.	.	.	.	.
Italy	2007	645	23.9	33.3	25.0	13.8	23.9	3.9	0.1	20.9	26.8
	2011	595	26.9	30.9	23.0	13.2	26.9	6.0	0.0	21.7	32.2
Japan	2007	643	16.4	44.8	20.8	14.2	16.4	3.8	0.0	15.1	17.6
	2011	637	15.9	45.7	21.5	15.6	15.9	1.2	0.0	14.0	17.7
Kuwait	2007	537	22.0	21.0	27.1	20.3	22.0	7.3	2.4	23.1	20.6
	2011	583	38.9	20.7	19.7	15.1	38.9	5.4	0.2	41.5	35.8
Lithuania	2007	559	38.9	23.0	23.1	7.7	38.9	7.3	0.0	41.9	36.3
	2011	678	39.8	25.9	20.0	7.9	39.8	6.4	0.0	36.3	42.8
Netherlands	2007	479	27.0	24.6	22.5	22.4	27.0	3.4	0.0	30.4	24.3
	2011	452	26.2	22.0	28.6	18.6	26.2	4.6	0.0	26.6	25.8
New Zealand	2007	702	34.3	21.1	23.7	18.1	34.3	2.5	0.2	34.0	34.5
	2011	792	32.7	21.6	22.9	20.2	32.7	2.6	0.0	30.6	34.5
Norway	2007	586	16.8	18.8	24.3	31.6	16.8	8.3	0.1	17.1	16.6
	2011	423	18.6	21.1	23.7	29.4	18.6	7.2	0.0	20.6	16.7
Russian Federation	2007	632	33.1	29.9	17.6	13.8	33.1	5.6	0.0	32.1	34.2
	2011	639	32.7	25.8	23.9	13.7	32.7	3.9	0.0	30.7	34.2
Singapore	2007	712	70.8	9.2	11.0	8.9	70.8	0.2	0.0	69.4	71.9
	2011	913	35.0	19.0	32.8	12.6	35.0	0.6	0.0	33.3	36.7
Slovak Republic	2007	711	25.5	28.4	23.6	12.1	25.5	10.4	0.0	22.0	28.8
	2011	786	25.2	15.5	51.5	5.8	25.2	1.9	0.1	27.3	23.3
Slovenia	2007	625	21.8	28.5	26.8	14.4	21.8	8.3	0.2	23.2	20.5
	2011	645	22.8	28.3	26.5	10.5	22.8	11.5	0.3	19.1	26.6

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

S06_05 (S041187): Physical Science / Knowing
Label: Describes condensation - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	670	28.8	25.7	22.6	16.8	28.8	6.1	0.0	25.9	31.5
	2011	680	28.1	26.5	24.9	14.6	28.1	5.8	0.0	27.6	28.7
Tunisia	2007	590	16.3	14.7	25.7	20.5	16.3	21.0	1.8	16.3	16.2
	2011	678	17.7	16.8	29.5	19.0	17.7	16.2	0.7	14.6	20.8
United States	2007	1138	32.2	26.4	24.7	15.8	32.2	0.8	0.1	30.9	33.5
	2011	1798	32.1	26.1	24.9	15.3	32.1	1.5	0.1	28.5	35.9

International Avg. (23)	2007	14698	28.0	27.3	22.6	15.1	28.0	6.7	0.3	27.0	29.1
	2011	16136	27.2	26.9	25.5	14.6	27.2	5.6	0.1	25.5	28.8

Alberta, Canada	2007	571	23.8	30.0	24.5	17.4	23.8	4.1	0.2	20.5	26.9
	2011	517	22.5	33.4	25.9	16.4	22.5	1.7	0.2	24.3	21.0
Ontario, Canada	2007	500	29.0	29.1	27.4	12.4	29.0	1.2	0.9	30.3	27.8
	2011	639	22.6	32.6	30.0	12.4	22.6	2.3	0.1	21.4	23.8
Quebec, Canada	2007	562	36.0	24.3	17.5	18.5	36.0	3.6	0.1	33.5	37.9
	2011	603	35.3	23.4	20.4	18.9	35.3	1.8	0.2	34.5	35.9
Dubai, UAE	2007	436	37.8	21.7	19.3	15.1	37.8	5.8	0.3	39.9	35.9
	2011	888	42.2	22.4	19.9	12.6	42.2	2.5	0.5	36.5	47.3

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

S06_06A (S041013A): Life Science / Applying
Label: Use of tiger canines - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	42.9	7.0	45.6	4.3	0.2	42.9	44.0	41.5
	2011	867	39.7	4.5	53.6	2.0	0.2	39.7	37.8	41.6
Austria	2007	695	36.3	8.6	47.2	7.9	0.0	36.3	32.5	40.6
	2011	661	44.8	6.6	42.3	6.3	0.0	44.8	42.3	47.2
Chinese Taipei	2007	589	42.5	10.7	43.1	3.7	0.0	42.5	42.5	42.6
	2011	612	16.2	19.6	61.2	3.1	0.0	16.2	15.1	17.2
Czech Republic	2007	609	55.9	3.3	36.5	4.1	0.2	55.9	52.4	59.2
	2011	647	42.6	8.3	46.1	2.9	0.1	42.6	42.5	42.7
Denmark	2007	483	61.0	7.6	26.1	5.0	0.3	61.0	58.9	63.3
	2011	556	62.3	5.2	27.9	4.0	0.7	62.3	62.7	61.9
England	2007	613	52.2	7.8	37.6	2.5	0.0	52.2	44.5	59.6
	2011	490	47.8	6.8	42.5	2.9	0.0	47.8	48.0	47.5
Georgia	2007	587	22.5	9.0	42.8	24.1	1.7	22.5	24.1	20.9
	2011	686	18.0	6.0	62.9	12.8	0.3	18.0	15.9	19.6
Germany	2007	742	45.3	9.4	39.6	5.8	0.0	45.3	42.5	48.1
	2011	573	42.0	7.3	44.3	6.3	0.0	42.0	35.5	48.5
Hong Kong SAR	2007	539	30.1	5.0	61.8	3.1	0.0	30.1	30.1	30.1
	2011	568	18.4	2.6	76.8	2.3	0.0	18.4	15.4	20.6
Hungary	2007	574	46.8	5.6	39.5	7.8	0.3	46.8	43.5	50.3
	2011	745	50.3	3.6	43.3	2.7	0.1	50.3	44.1	55.7
Iran, Islamic Rep. of	2007	551	37.1	1.3	48.0	13.1	0.5	37.1	35.4	39.1
	2011	818	19.5	4.5	66.8	8.8	0.5	19.5	17.1	21.6
Italy	2007	645	42.9	1.3	50.2	5.3	0.4	42.9	40.9	44.8
	2011	595	47.2	6.6	42.0	4.2	0.0	47.2	44.5	49.9
Japan	2007	643	29.6	9.6	59.6	1.3	0.0	29.6	25.2	33.8
	2011	637	23.1	16.0	59.5	1.3	0.0	23.1	21.0	25.1
Kuwait	2007	537	12.7	1.6	55.9	27.0	2.7	12.7	14.3	11.0
	2011	589	5.9	1.0	68.6	24.0	0.6	5.9	4.5	7.5
Lithuania	2007	559	38.1	6.5	53.9	1.5	0.0	38.1	38.3	37.9
	2011	678	32.6	2.5	62.2	2.8	0.0	32.6	24.5	39.4
Netherlands	2007	479	45.3	9.0	44.7	1.0	0.0	45.3	41.0	48.8
	2011	452	37.9	10.4	51.0	0.7	0.0	37.9	35.9	39.9
New Zealand	2007	702	47.9	6.3	42.1	3.5	0.2	47.9	47.8	48.0
	2011	792	36.4	4.6	55.3	3.5	0.2	36.4	34.9	37.8
Norway	2007	586	30.5	6.8	55.0	7.4	0.2	30.5	28.1	33.3
	2011	423	36.8	6.8	51.1	5.2	0.1	36.8	32.0	41.2
Russian Federation	2007	632	40.9	12.2	44.7	2.3	0.0	40.9	39.6	42.2
	2011	639	51.2	8.2	39.0	1.6	0.0	51.2	49.8	52.3
Singapore	2007	712	28.8	6.7	63.5	1.0	0.0	28.8	27.5	29.9
	2011	913	36.8	9.5	53.3	0.4	0.0	36.8	35.4	38.2
Slovak Republic	2007	711	39.7	7.3	44.3	8.6	0.1	39.7	35.3	43.8
	2011	786	39.6	3.8	51.3	5.2	0.1	39.6	36.1	42.6
Slovenia	2007	625	54.9	10.7	30.6	3.6	0.2	54.9	53.2	56.4
	2011	647	47.2	5.4	40.7	6.0	0.5	47.2	48.7	45.8

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

S06_06A (S041013A): Life Science / Applying
Label: Use of tiger canines - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	44.3	11.8	40.1	3.8	0.0	44.3	43.5	45.1
	2011	680	44.6	7.4	42.8	5.3	0.0	44.6	40.4	48.5
Tunisia	2007	590	26.1	3.0	55.8	13.3	1.8	26.1	26.7	25.6
	2011	701	30.3	2.7	53.8	12.1	1.2	30.3	31.7	28.9
United States	2007	1138	41.9	5.9	50.7	1.5	0.1	41.9	40.5	43.2
	2011	1798	38.3	5.6	54.0	1.9	0.1	38.3	35.8	40.9
International Avg. (25)	2007	15791	39.9	7.0	46.3	6.5	0.4	39.9	38.1	41.6
	2011	17553	36.4	6.6	51.7	5.1	0.2	36.4	34.1	38.5
Alberta, Canada	2007	571	37.2	6.4	52.0	4.2	0.2	37.2	34.4	40.0
	2011	517	43.6	4.7	50.4	1.1	0.2	43.6	43.1	44.0
Ontario, Canada	2007	500	35.0	6.2	55.5	2.4	0.9	35.0	31.0	38.7
	2011	639	37.2	5.0	55.8	2.0	0.1	37.2	32.8	41.5
Quebec, Canada	2007	562	25.9	2.2	61.1	10.7	0.1	25.9	23.4	27.9
	2011	603	22.3	3.2	68.2	6.0	0.2	22.3	20.3	24.1
Dubai, UAE	2007	436	36.5	4.1	49.5	9.6	0.3	36.5	33.4	39.4
	2011	888	32.4	5.4	54.1	7.6	0.5	32.4	28.9	35.6

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

S06_06B (S041013B): Life Science / Applying
Label: Use of rat incisors - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	16.7	15.4	61.6	5.7	0.7	16.7	16.4	17.1
	2011	867	15.4	9.8	72.4	2.2	0.2	15.4	14.4	16.4
Austria	2007	695	22.2	21.8	43.1	12.9	0.0	22.2	21.3	23.2
	2011	661	24.5	40.3	24.1	11.1	0.0	24.5	26.1	22.8
Chinese Taipei	2007	589	26.0	19.3	49.9	4.8	0.0	26.0	25.6	26.3
	2011	612	33.1	3.2	59.4	4.3	0.0	33.1	29.9	35.8
Czech Republic	2007	609	27.7	8.2	49.2	14.7	0.2	27.7	23.9	31.4
	2011	647	27.4	18.5	47.9	6.0	0.1	27.4	29.0	25.8
Denmark	2007	483	47.9	4.2	38.6	9.0	0.3	47.9	43.0	53.2
	2011	556	51.9	5.2	36.9	5.2	0.7	51.9	50.5	53.3
England	2007	613	16.9	18.0	60.4	4.7	0.0	16.9	16.7	17.0
	2011	490	19.1	21.4	53.7	5.4	0.3	19.1	18.4	19.8
Georgia	2007	587	24.8	14.6	33.1	25.8	1.7	24.8	27.9	21.4
	2011	686	20.3	15.6	50.2	13.5	0.4	20.3	16.7	23.2
Germany	2007	742	24.5	16.7	47.4	11.5	0.0	24.5	26.3	22.7
	2011	573	17.6	19.4	53.1	9.9	0.0	17.6	16.2	19.1
Hong Kong SAR	2007	539	4.8	14.5	76.6	4.1	0.0	4.8	4.1	5.6
	2011	568	2.4	9.6	85.6	2.5	0.0	2.4	4.0	1.2
Hungary	2007	574	33.2	25.6	31.6	9.1	0.5	33.2	30.8	35.7
	2011	745	29.5	22.8	42.2	5.4	0.1	29.5	27.8	30.9
Iran, Islamic Rep. of	2007	551	13.9	11.2	57.8	16.0	1.1	13.9	14.0	13.8
	2011	818	16.9	6.5	65.0	11.0	0.5	16.9	16.8	16.9
Italy	2007	645	35.3	8.0	48.3	7.9	0.6	35.3	36.2	34.4
	2011	595	29.4	17.0	46.4	7.2	0.0	29.4	28.8	30.0
Japan	2007	643	33.0	29.3	34.4	3.3	0.0	33.0	38.3	27.8
	2011	637	41.5	22.0	34.8	1.7	0.0	41.5	39.7	43.2
Kuwait	2007	537	9.0	15.7	37.6	34.6	3.1	9.0	11.0	6.8
	2011	589	1.0	7.9	61.7	28.6	0.8	1.0	0.8	1.2
Lithuania	2007	559	46.0	14.3	35.6	4.2	0.0	46.0	45.2	46.6
	2011	678	45.2	10.7	40.0	4.1	0.0	45.2	44.0	46.3
Netherlands	2007	479	21.7	26.5	49.2	2.7	0.0	21.7	20.3	22.8
	2011	452	21.2	34.8	41.7	2.3	0.0	21.2	20.2	22.3
New Zealand	2007	702	19.6	11.9	62.4	5.9	0.2	19.6	19.5	19.7
	2011	792	15.5	12.0	68.6	3.7	0.2	15.5	13.7	17.2
Norway	2007	586	45.2	8.4	38.3	7.7	0.3	45.2	46.1	44.2
	2011	423	42.5	8.8	42.4	6.2	0.1	42.5	42.7	42.4
Russian Federation	2007	632	42.6	13.6	35.5	8.3	0.0	42.6	38.3	47.1
	2011	639	38.0	12.7	44.4	5.0	0.0	38.0	39.7	36.6
Singapore	2007	712	19.2	15.0	64.2	1.7	0.0	19.2	17.2	20.8
	2011	913	13.3	23.8	61.7	1.2	0.0	13.3	14.6	12.1
Slovak Republic	2007	711	26.3	10.5	51.1	12.1	0.1	26.3	26.7	25.9
	2011	786	21.2	11.0	59.1	8.7	0.1	21.2	20.0	22.2
Slovenia	2007	625	36.8	5.0	52.4	5.6	0.2	36.8	34.9	38.5
	2011	647	25.5	22.9	43.6	7.2	0.8	25.5	27.8	23.2

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

S06_06B (S041013B): Life Science / Applying
Label: Use of rat incisors - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	38.5	12.7	42.9	5.0	1.0	38.5	41.7	35.4
	2011	680	47.9	6.5	40.5	5.0	0.2	47.9	49.1	46.8
Tunisia	2007	590	9.7	17.5	49.5	20.6	2.8	9.7	10.0	9.4
	2011	701	14.3	17.4	44.9	21.9	1.5	14.3	16.5	12.2
United States	2007	1138	12.5	20.7	65.2	1.6	0.1	12.5	14.5	10.5
	2011	1798	12.8	18.7	65.8	2.6	0.1	12.8	12.8	12.8
International Avg. (25)	2007	15791	26.1	15.1	48.6	9.6	0.5	26.1	26.0	26.3
	2011	17553	25.1	15.9	51.4	7.3	0.3	25.1	24.8	25.3
Alberta, Canada	2007	571	14.6	26.1	54.2	4.5	0.5	14.6	16.0	13.3
	2011	517	15.4	28.3	54.5	1.7	0.2	15.4	17.8	13.5
Ontario, Canada	2007	500	15.6	21.7	58.1	3.7	0.9	15.6	16.1	15.1
	2011	639	11.9	21.0	64.7	2.3	0.1	11.9	9.8	14.0
Quebec, Canada	2007	562	23.2	31.1	32.3	13.4	0.1	23.2	23.0	23.3
	2011	603	15.1	16.8	60.6	7.3	0.2	15.1	15.1	15.1
Dubai, UAE	2007	436	13.9	19.4	53.2	13.1	0.3	13.9	13.3	14.3
	2011	888	5.8	14.9	68.1	10.7	0.6	5.8	7.5	4.3

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

S06_07 (S041067): Physical Science / Knowing

Label: Type of energy that runs objects - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	67.9	27.0	4.4	0.7	67.9	70.1	64.9
	2011	867	61.7	32.3	5.8	0.2	61.7	57.0	66.8
Austria	2007	695	70.5	23.5	5.9	0.0	70.5	69.6	71.6
	2011	661	68.1	26.4	5.5	0.0	68.1	68.4	67.8
Chinese Taipei	2007	589	72.4	22.2	5.3	0.0	72.4	75.6	69.4
	2011	612	76.1	21.0	2.9	0.0	76.1	73.7	78.2
Czech Republic	2007	609	62.7	31.1	5.8	0.4	62.7	58.0	67.3
	2011	647	60.0	33.7	6.1	0.1	60.0	55.5	64.7
Denmark	2007	483	67.2	24.9	7.4	0.5	67.2	64.5	69.9
	2011	556	67.0	26.4	5.9	0.7	67.0	60.9	73.0
England	2007	613	81.9	16.1	1.9	0.0	81.9	83.5	80.4
	2011	490	78.2	18.6	2.6	0.6	78.2	76.8	79.7
Georgia	2007	587	61.3	22.1	14.8	1.7	61.3	63.6	58.9
	2011	686	59.1	28.1	12.3	0.4	59.1	60.2	58.2
Germany	2007	742	66.6	24.7	8.5	0.3	66.6	64.3	68.8
	2011	573	62.0	28.5	9.5	0.0	62.0	59.9	64.0
Hong Kong SAR	2007	539	61.1	38.1	0.8	0.0	61.1	60.3	61.9
	2011	568	64.2	33.4	2.4	0.0	64.2	61.0	66.5
Hungary	2007	574	75.7	17.4	6.4	0.5	75.7	74.4	77.0
	2011	745	74.9	20.1	4.9	0.1	74.9	77.3	72.9
Iran, Islamic Rep. of	2007	551	34.4	58.2	6.4	1.1	34.4	29.4	39.8
	2011	818	44.8	49.5	5.2	0.5	44.8	39.7	49.4
Italy	2007	645	60.5	25.3	13.6	0.6	60.5	57.8	63.1
	2011	595	58.0	31.5	10.5	0.0	58.0	52.7	63.3
Japan	2007	643	81.8	14.9	3.3	0.1	81.8	80.2	83.4
	2011	637	84.6	13.0	2.4	0.0	84.6	81.5	87.5
Kuwait	2007	537	25.1	52.8	19.0	3.1	25.1	29.0	20.9
	2011	588	21.3	65.7	12.0	1.1	21.3	23.6	18.5
Lithuania	2007	559	75.6	18.7	5.6	0.0	75.6	74.5	76.6
	2011	678	76.1	19.6	4.3	0.0	76.1	70.4	80.9
Netherlands	2007	479	74.9	22.2	2.9	0.0	74.9	72.9	76.5
	2011	452	73.0	25.7	1.3	0.0	73.0	71.3	74.8
New Zealand	2007	702	52.9	41.9	4.9	0.2	52.9	52.2	53.5
	2011	792	43.4	52.5	3.9	0.2	43.4	42.7	44.0
Norway	2007	586	48.2	39.6	11.8	0.3	48.2	39.1	58.8
	2011	423	55.2	34.6	10.1	0.1	55.2	50.9	59.1
Russian Federation	2007	632	83.9	14.0	2.1	0.0	83.9	80.8	87.1
	2011	639	78.2	19.4	2.3	0.0	78.2	75.9	80.0
Singapore	2007	712	59.8	38.4	1.9	0.0	59.8	57.8	61.5
	2011	913	61.8	37.2	1.0	0.0	61.8	62.8	60.8
Slovak Republic	2007	711	55.8	36.9	7.2	0.1	55.8	54.9	56.6
	2011	786	59.9	35.1	4.9	0.1	59.9	56.1	63.2
Slovenia	2007	625	65.3	30.8	3.7	0.2	65.3	63.7	66.8
	2011	647	63.2	28.4	7.6	0.8	63.2	69.2	57.1

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

S06_07 (S041067): Physical Science / Knowing

Label: Type of energy that runs objects - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	68.5	26.8	3.7	1.0	68.5	68.6	68.4
	2011	680	67.2	29.1	3.5	0.2	67.2	61.1	73.1
Tunisia	2007	590	39.9	45.0	12.2	2.9	39.9	43.0	36.9
	2011	701	45.2	41.1	12.0	1.6	45.2	46.7	43.9
United States	2007	1138	63.9	33.1	2.9	0.1	63.9	61.5	66.3
	2011	1798	61.3	36.4	2.1	0.1	61.3	59.2	63.5
International Avg. (25)	2007	15791	63.1	29.8	6.5	0.6	63.1	62.0	64.3
	2011	17552	62.6	31.5	5.6	0.3	62.6	60.6	64.4
Alberta, Canada	2007	571	61.3	34.1	4.1	0.5	61.3	57.9	64.4
	2011	517	60.0	38.1	1.5	0.4	60.0	61.8	58.6
Ontario, Canada	2007	500	67.6	28.0	3.5	0.9	67.6	61.5	73.2
	2011	639	60.0	35.9	3.9	0.2	60.0	61.3	58.7
Quebec, Canada	2007	562	70.0	24.5	5.5	0.1	70.0	68.9	70.8
	2011	603	72.6	24.8	2.4	0.2	72.6	70.8	74.2
Dubai, UAE	2007	436	47.7	39.0	12.6	0.6	47.7	44.8	50.4
	2011	888	43.6	47.0	8.9	0.6	43.6	38.0	48.6

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

S06_08 (S041305): Physical Science / Reasoning
Label: A balance and four cubes - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	47.7	47.7	28.2	10.0	11.1	2.3	0.7	45.7	50.4
	2011	867	50.1	50.1	28.1	9.8	9.5	2.4	0.2	51.1	49.0
Austria	2007	695	48.0	48.0	26.0	10.7	10.5	4.8	0.0	44.3	52.1
	2011	661	46.1	46.1	32.4	9.5	8.7	3.3	0.0	41.2	50.9
Chinese Taipei	2007	589	67.4	67.4	17.5	8.5	6.0	0.6	0.0	68.4	66.6
	2011	612	70.3	70.3	18.6	4.4	6.4	0.3	0.0	70.7	69.9
Czech Republic	2007	609	33.6	33.6	35.6	9.7	13.0	7.7	0.4	31.7	35.4
	2011	647	39.3	39.3	32.6	7.8	16.2	3.9	0.1	35.3	43.5
Denmark	2007	483	43.1	43.1	32.3	7.2	7.4	9.5	0.5	41.8	44.5
	2011	556	44.0	44.0	31.4	6.1	9.3	8.5	0.7	46.0	42.0
England	2007	613	52.7	52.7	26.1	9.3	10.0	1.9	0.0	49.7	55.6
	2011	490	48.0	48.0	25.3	10.2	14.6	1.2	0.6	50.6	45.3
Georgia	2007	586	26.2	26.2	25.9	14.0	16.4	15.1	2.4	27.3	25.1
	2011	686	31.0	31.0	26.4	16.9	16.0	8.9	0.8	33.8	28.8
Germany	2007	742	50.1	50.1	27.7	7.4	10.3	3.9	0.6	47.1	53.2
	2011	573	48.5	48.5	30.4	9.5	8.3	3.3	0.0	45.6	51.4
Hong Kong SAR	2007	539	68.2	68.2	20.1	5.0	5.7	0.9	0.0	66.4	70.1
	2011	568	68.4	68.4	19.9	5.6	5.2	0.8	0.0	62.0	73.1
Hungary	2007	574	42.7	42.7	22.1	14.8	13.5	6.4	0.5	41.2	44.3
	2011	744	40.4	40.4	32.4	11.2	12.7	3.2	0.1	39.6	41.1
Iran, Islamic Rep. of	2007	551	28.2	28.2	32.6	13.0	16.1	8.4	1.8	31.4	24.5
	2011	818	35.6	35.6	30.0	14.6	15.1	4.1	0.5	31.4	39.3
Italy	2007	645	46.0	46.0	22.9	9.1	16.0	5.4	0.7	41.6	50.2
	2011	595	44.8	44.8	30.7	8.3	12.8	3.3	0.0	44.3	45.3
Japan	2007	643	65.8	65.8	20.1	5.5	4.0	4.4	0.1	66.1	65.6
	2011	637	65.9	65.9	18.6	6.9	5.2	3.5	0.0	63.0	68.6
Kuwait	2007	537	26.9	26.9	33.3	15.1	12.8	8.7	3.2	27.2	26.7
	2011	583	26.8	26.8	34.5	16.0	15.3	6.7	0.6	24.8	29.3
Lithuania	2007	559	43.3	43.3	30.2	9.1	13.4	3.9	0.0	39.1	46.8
	2011	678	46.9	46.9	28.3	10.2	12.0	2.6	0.0	46.0	47.7
Netherlands	2007	479	49.1	49.1	28.0	12.8	9.1	0.9	0.0	44.1	53.2
	2011	452	52.4	52.4	29.9	7.6	9.6	0.4	0.0	46.9	58.1
New Zealand	2007	702	43.6	43.6	27.9	12.0	14.1	2.3	0.2	40.6	45.9
	2011	792	46.9	46.9	29.3	10.8	10.9	1.6	0.4	49.0	45.0
Norway	2007	586	40.8	40.8	37.5	5.3	12.8	2.9	0.6	38.5	43.6
	2011	423	50.0	50.0	30.2	8.1	9.6	2.0	0.1	50.9	49.1
Russian Federation	2007	632	50.5	50.5	27.5	9.1	11.6	1.3	0.0	53.8	46.9
	2011	639	49.0	49.0	33.4	7.1	8.9	1.6	0.0	46.4	51.1
Singapore	2007	712	74.7	74.7	15.6	4.6	5.1	0.0	0.0	72.7	76.4
	2011	913	73.8	73.8	13.7	6.4	5.7	0.2	0.1	73.0	74.6
Slovak Republic	2007	711	39.5	39.5	32.6	9.5	12.0	6.3	0.1	34.9	43.7
	2011	786	43.4	43.4	36.6	6.7	10.5	2.8	0.1	42.3	44.4
Slovenia	2007	625	43.9	43.9	29.2	11.1	12.5	3.2	0.2	39.5	48.0
	2011	646	41.4	41.4	39.5	7.6	7.5	3.2	0.8	39.1	43.7

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

S06_08 (S041305): Physical Science / Reasoning
Label: A balance and four cubes - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	674	44.7	44.7	33.0	9.4	8.0	3.9	1.1	44.8	44.5
	2011	680	44.1	44.1	32.6	9.2	10.2	3.5	0.3	41.7	46.5
Tunisia	2007	590	17.8	17.8	28.7	16.4	10.4	23.7	3.0	14.5	20.8
	2011	682	17.9	17.9	29.9	19.6	15.8	14.7	2.1	16.8	19.1
United States	2007	1138	55.1	55.1	26.1	8.6	9.4	0.6	0.2	54.6	55.5
	2011	1798	49.6	49.6	30.1	7.6	11.5	1.0	0.1	44.7	54.6
International Avg. (25)	2007	15789	46.0	46.0	27.5	9.9	10.9	5.2	0.7	44.3	47.6
	2011	17526	47.0	47.0	29.0	9.5	10.7	3.5	0.3	45.5	48.5
Alberta, Canada	2007	571	46.5	46.5	30.1	7.7	13.1	2.2	0.5	47.8	45.2
	2011	517	48.0	48.0	34.7	7.8	7.8	1.2	0.4	45.8	49.7
Ontario, Canada	2007	500	46.9	46.9	30.0	9.6	11.7	0.9	1.0	43.5	49.9
	2011	639	48.2	48.2	31.5	7.1	12.1	0.8	0.2	42.1	54.3
Quebec, Canada	2007	562	43.2	43.2	34.9	11.2	8.2	2.5	0.1	44.5	42.2
	2011	603	48.4	48.4	33.1	6.3	9.3	2.7	0.2	46.3	50.4
Dubai, UAE	2007	436	37.3	37.3	32.8	12.1	10.3	6.8	0.7	35.2	39.2
	2011	888	40.1	40.1	31.2	12.1	13.3	2.7	0.6	37.4	42.6

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

S06_09 (S041048): Physical Science / Reasoning
Label: Styrofoam-brick-apple weigh more - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	43.5	12.9	21.2	20.4	0.4	1.6	43.5	48.7	36.6
	2011	867	42.7	17.4	16.3	22.2	1.1	0.2	42.7	44.7	40.6
Austria	2007	695	72.3	11.5	8.1	7.1	1.0	0.1	72.3	74.6	69.6
	2011	661	73.8	14.7	5.6	5.0	0.9	0.0	73.8	73.1	74.6
Chinese Taipei	2007	589	71.6	20.4	5.1	2.6	0.4	0.0	71.6	74.3	69.1
	2011	612	73.9	17.1	3.2	5.4	0.3	0.0	73.9	74.2	73.7
Czech Republic	2007	609	54.7	18.2	14.5	10.7	1.4	0.4	54.7	59.3	50.3
	2011	647	54.8	16.3	9.4	18.0	1.3	0.1	54.8	57.6	52.0
Denmark	2007	483	59.1	16.2	10.8	10.9	2.3	0.8	59.1	58.2	60.0
	2011	556	45.6	22.4	7.0	21.8	2.2	1.1	45.6	49.4	41.8
England	2007	613	45.5	16.7	18.4	16.3	3.1	0.0	45.5	45.3	45.7
	2011	490	39.4	20.8	12.1	24.3	2.7	0.7	39.4	42.0	36.9
Georgia	2007	586	14.7	23.5	19.4	28.8	10.6	3.0	14.7	19.6	9.5
	2011	686	18.9	23.1	26.5	25.0	5.3	1.2	18.9	20.7	17.4
Germany	2007	742	53.1	20.9	11.8	10.7	2.8	0.6	53.1	53.1	53.1
	2011	573	50.8	23.5	12.8	9.4	3.4	0.2	50.8	51.7	49.9
Hong Kong SAR	2007	539	57.1	32.0	6.7	3.7	0.5	0.0	57.1	61.9	52.1
	2011	568	48.7	38.1	3.4	9.8	0.0	0.0	48.7	49.9	47.8
Hungary	2007	574	63.4	14.1	8.1	12.7	0.9	0.8	63.4	62.2	64.6
	2011	745	68.3	12.4	5.7	11.5	1.9	0.1	68.3	71.0	65.9
Iran, Islamic Rep. of	2007	551	17.8	20.1	24.0	34.1	1.3	2.6	17.8	16.1	19.7
	2011	818	24.3	28.8	17.4	27.2	1.4	0.9	24.3	23.5	25.1
Italy	2007	645	56.4	14.0	8.8	15.4	4.3	1.0	56.4	56.9	55.9
	2011	595	55.8	8.1	15.5	18.8	1.5	0.2	55.8	56.3	55.3
Japan	2007	643	49.0	35.7	7.9	7.2	0.2	0.1	49.0	55.5	42.7
	2011	637	45.5	34.2	8.9	11.2	0.3	0.0	45.5	51.1	40.1
Kuwait	2007	537	16.6	26.7	37.1	12.0	3.6	3.9	16.6	19.4	13.4
	2011	589	23.4	23.0	8.1	40.9	3.3	1.2	23.4	28.6	17.2
Lithuania	2007	559	48.1	18.0	30.6	2.5	0.8	0.0	48.1	43.9	51.6
	2011	678	54.1	13.5	11.0	20.8	0.6	0.0	54.1	54.1	54.1
Netherlands	2007	479	37.0	28.4	20.6	13.1	0.5	0.4	37.0	43.3	31.9
	2011	452	40.1	24.7	11.9	22.7	0.6	0.0	40.1	42.6	37.5
New Zealand	2007	702	40.0	16.8	14.2	27.6	1.2	0.2	40.0	46.3	35.0
	2011	792	38.7	15.4	12.5	32.4	0.6	0.4	38.7	40.4	37.1
Norway	2007	586	58.6	13.9	11.0	14.2	1.4	0.8	58.6	62.3	54.3
	2011	423	62.0	15.3	9.9	11.2	1.4	0.1	62.0	64.2	60.0
Russian Federation	2007	632	66.3	15.5	16.9	0.6	0.3	0.4	66.3	63.2	69.7
	2011	639	71.3	13.4	4.9	10.1	0.3	0.0	71.3	73.6	69.4
Singapore	2007	712	50.9	18.6	26.6	3.9	0.0	0.0	50.9	55.9	46.6
	2011	913	52.1	19.2	15.2	13.2	0.2	0.1	52.1	54.3	50.0
Slovak Republic	2007	711	48.2	16.0	21.4	12.5	1.8	0.1	48.2	47.0	49.4
	2011	786	53.5	16.9	10.5	18.7	0.3	0.1	53.5	54.2	52.8
Slovenia	2007	625	47.4	26.2	10.6	14.3	1.2	0.2	47.4	44.9	49.8
	2011	647	43.1	27.8	9.0	17.9	1.5	0.8	43.1	42.1	44.1

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

S06_09 (S041048): Physical Science / Reasoning
Label: Styrofoam-brick-apple weigh more - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	59.2	17.1	11.8	9.5	0.8	1.5	59.2	58.0	60.4
	2011	680	55.9	20.8	7.7	13.4	1.8	0.4	55.9	58.4	53.5
Tunisia	2007	590	18.8	23.6	16.0	34.3	3.9	3.4	18.8	21.1	16.7
	2011	701	15.3	33.2	10.5	36.6	1.8	2.7	15.3	17.9	12.8
United States	2007	1138	41.8	20.9	13.5	22.4	1.1	0.2	41.8	42.2	41.5
	2011	1798	46.1	16.6	17.0	19.7	0.4	0.2	46.1	47.3	44.7
International Avg. (25)	2007	15790	47.7	19.9	15.8	13.9	1.8	0.9	47.7	49.3	46.0
	2011	17553	47.9	20.7	10.9	18.7	1.4	0.4	47.9	49.7	46.2
Alberta, Canada	2007	571	50.4	15.1	19.1	12.3	2.2	0.9	50.4	50.7	50.1
	2011	517	51.9	12.1	16.5	18.0	0.8	0.6	51.9	50.9	52.7
Ontario, Canada	2007	500	49.8	13.3	20.5	13.9	1.5	1.0	49.8	49.7	49.9
	2011	639	51.3	13.3	17.3	16.0	1.8	0.4	51.3	54.9	47.6
Quebec, Canada	2007	562	56.3	10.0	13.2	17.9	2.5	0.1	56.3	55.4	57.1
	2011	603	51.2	19.4	11.0	16.5	1.7	0.2	51.2	51.6	50.8
Dubai, UAE	2007	436	18.3	20.6	28.7	27.3	4.3	0.7	18.3	21.0	16.0
	2011	888	24.3	20.3	15.5	37.6	1.7	0.6	24.3	24.4	24.2

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

S06_10 (S041110): Earth Science / Knowing
Label: Energy received from the sun - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	28.6	16.3	24.8	20.5	8.3	1.6	69.7	68.8	70.9
	2011	867	21.5	11.2	30.4	30.7	5.9	0.3	63.1	60.7	65.6
Austria	2007	695	22.5	18.8	20.9	18.6	19.0	0.1	62.3	56.1	69.2
	2011	661	18.5	16.1	29.8	19.2	16.3	0.0	64.5	59.3	69.5
Chinese Taipei	2007	589	21.7	1.5	42.5	21.8	12.4	0.0	65.7	62.0	69.3
	2011	612	17.4	3.2	40.0	28.0	11.4	0.0	60.6	58.1	62.8
Czech Republic	2007	609	34.5	22.8	5.1	21.2	15.7	0.7	62.4	61.4	63.3
	2011	647	24.1	20.3	14.6	31.7	9.0	0.4	59.0	63.8	53.9
Denmark	2007	482	26.2	21.6	10.7	23.1	17.5	1.1	58.4	51.2	66.1
	2011	556	20.1	16.9	23.5	26.6	11.7	1.1	60.5	54.2	66.7
England	2007	613	32.5	26.3	10.2	22.0	9.1	0.0	69.0	66.4	71.5
	2011	490	33.3	21.5	10.8	25.9	7.4	1.1	65.5	66.8	64.3
Georgia	2007	588	19.2	31.0	0.7	11.3	34.8	3.1	50.8	51.4	50.2
	2011	686	29.4	28.2	1.3	18.0	21.9	1.2	58.9	60.6	57.5
Germany	2007	742	17.5	19.9	14.5	29.2	18.2	0.6	51.9	44.7	59.1
	2011	573	12.5	13.4	22.5	37.8	13.6	0.2	48.4	43.3	53.4
Hong Kong SAR	2007	539	24.2	6.0	41.5	21.7	6.5	0.0	71.7	71.9	71.5
	2011	568	19.0	6.0	48.0	22.8	4.2	0.0	73.0	66.3	78.0
Hungary	2007	574	31.2	9.2	19.1	21.0	18.8	0.8	59.4	52.0	67.2
	2011	744	27.0	6.3	20.6	35.7	9.6	0.8	53.9	53.0	54.7
Iran, Islamic Rep. of	2007	551	32.8	11.3	0.4	28.8	23.9	2.8	44.5	44.9	44.0
	2011	817	38.6	13.9	1.1	31.5	13.5	1.5	53.5	51.1	55.7
Italy	2007	645	23.2	19.5	22.2	20.2	13.8	1.1	64.9	62.0	67.6
	2011	595	22.4	22.5	23.5	18.3	13.1	0.2	68.4	66.5	70.3
Japan	2007	643	41.2	13.1	4.0	34.6	7.0	0.1	58.3	56.8	59.8
	2011	637	42.0	12.8	4.3	34.2	6.7	0.0	59.1	58.9	59.2
Kuwait	2007	537	10.8	2.2	0.9	29.6	52.4	4.1	13.9	16.3	11.3
	2011	588	21.0	7.0	0.9	31.9	37.9	1.3	28.9	33.0	24.1
Lithuania	2007	559	25.1	29.7	7.7	24.2	13.3	0.0	62.5	62.3	62.6
	2011	678	18.6	20.2	13.8	34.2	13.2	0.0	52.6	56.0	49.7
Netherlands	2007	479	18.1	10.9	38.7	28.6	3.0	0.6	67.7	63.6	71.1
	2011	452	10.1	10.0	48.6	28.8	2.5	0.0	68.7	66.3	71.2
New Zealand	2007	702	20.8	24.3	15.9	28.0	10.5	0.5	61.0	56.6	64.5
	2011	792	18.9	14.9	22.6	33.6	9.7	0.4	56.3	53.2	59.3
Norway	2007	586	25.4	21.8	5.1	26.1	20.8	0.8	52.3	50.9	53.9
	2011	423	22.9	25.9	8.0	30.6	11.9	0.6	56.9	57.7	56.1
Russian Federation	2007	632	32.7	37.5	6.2	13.3	10.0	0.4	76.4	79.0	73.6
	2011	639	32.9	29.2	10.3	19.3	8.2	0.0	72.5	73.6	71.6
Singapore	2007	712	36.7	43.0	1.8	17.0	1.5	0.0	81.5	79.5	83.1
	2011	913	43.4	32.3	6.6	15.3	2.4	0.1	82.2	82.8	81.7
Slovak Republic	2007	711	33.6	25.4	8.8	15.7	16.3	0.2	67.8	64.0	71.3
	2011	786	43.5	20.1	11.3	16.2	8.9	0.1	74.9	76.3	73.7
Slovenia	2007	625	44.5	14.3	2.4	27.4	11.0	0.5	61.1	58.9	63.3
	2011	647	38.2	13.7	1.0	30.8	15.4	1.0	52.9	56.7	48.9

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

S06_10 (S041110): Earth Science / Knowing
Label: Energy received from the sun - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	14.2	22.0	10.9	35.3	16.1	1.6	47.1	47.4	46.7
	2011	680	10.7	18.1	15.6	42.2	13.0	0.4	44.4	42.2	46.4
Tunisia	2007	590	5.2	13.1	6.4	38.2	32.7	4.4	24.7	25.0	24.4
	2011	701	3.0	17.2	8.6	43.3	24.7	3.2	28.8	32.3	25.4
United States	2007	1138	30.8	21.4	14.0	28.3	5.2	0.3	66.2	66.3	66.1
	2011	1798	26.2	18.1	18.5	33.4	3.4	0.4	62.8	62.8	62.9

International Avg. (25)	2007	15791	26.1	19.3	13.4	24.2	15.9	1.0	58.8	56.8	60.9
	2011	17550	24.6	16.8	17.5	28.8	11.8	0.6	58.8	58.2	59.3

Alberta, Canada	2007	571	32.6	15.6	17.3	27.5	6.2	0.9	65.5	63.6	67.4
	2011	517	25.1	15.9	22.7	31.6	4.0	0.6	63.8	62.4	64.8
Ontario, Canada	2007	500	39.2	16.9	13.3	22.9	6.5	1.2	69.4	65.1	73.3
	2011	639	31.7	12.5	15.3	33.8	6.3	0.4	59.5	53.5	65.4
Quebec, Canada	2007	562	24.8	18.7	12.2	31.7	12.5	0.1	55.7	51.4	59.0
	2011	603	22.3	15.9	18.4	35.5	7.1	0.8	56.6	56.4	56.8
Dubai, UAE	2007	436	31.1	8.4	7.3	28.5	24.0	0.7	46.8	49.9	44.1
	2011	888	29.2	13.5	13.2	24.2	19.3	0.6	55.9	53.3	58.3

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

S06_11 (S041069): Physical Science / Applying
Label: Shadow along which line - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	50.7	19.2	50.7	7.5	20.5	0.3	1.7	46.7	56.1
	2011	867	57.5	18.5	57.5	7.3	15.0	1.3	0.3	51.5	63.9
Austria	2007	695	57.7	18.2	57.7	8.0	13.4	2.4	0.2	51.3	65.0
	2011	661	61.4	16.0	61.4	6.2	14.1	2.2	0.0	56.1	66.7
Chinese Taipei	2007	589	79.7	8.9	79.7	3.2	8.2	0.0	0.0	75.0	84.1
	2011	612	82.9	6.1	82.9	1.6	8.9	0.3	0.2	77.0	88.0
Czech Republic	2007	609	57.2	14.1	57.2	9.2	16.4	1.9	1.2	50.8	63.5
	2011	647	62.7	15.5	62.7	6.8	14.3	0.2	0.5	53.3	72.6
Denmark	2007	482	57.1	20.7	57.1	8.0	11.7	1.4	1.1	47.4	67.4
	2011	556	56.0	14.4	56.0	8.5	15.8	2.8	2.6	48.9	63.0
England	2007	613	62.9	17.1	62.9	6.0	13.1	0.1	0.7	60.1	65.7
	2011	490	58.3	12.3	58.3	8.6	17.7	1.3	1.9	54.5	62.1
Georgia	2007	588	41.3	20.0	41.3	11.8	19.4	4.0	3.5	37.0	45.8
	2011	686	48.6	14.8	48.6	11.1	20.3	3.6	1.6	43.4	52.7
Germany	2007	742	60.5	15.9	60.5	7.2	13.1	2.4	0.9	57.9	63.1
	2011	573	61.8	14.3	61.8	6.5	16.4	0.9	0.2	52.0	71.5
Hong Kong SAR	2007	539	79.9	6.7	79.9	3.6	9.0	0.5	0.3	77.9	82.0
	2011	568	73.7	9.9	73.7	4.6	11.4	0.2	0.2	71.7	75.2
Hungary	2007	574	61.9	13.9	61.9	6.4	12.6	4.2	1.0	60.1	63.8
	2011	745	67.5	12.9	67.5	6.7	10.6	1.4	1.0	62.2	72.0
Iran, Islamic Rep. of	2007	551	46.6	19.7	46.6	10.1	15.4	5.0	3.2	46.6	46.6
	2011	817	49.9	18.3	49.9	11.7	16.4	1.6	2.0	44.0	55.2
Italy	2007	632	52.9	19.2	52.9	8.5	15.9	1.9	1.6	49.5	56.2
	2011	595	52.4	19.0	52.4	11.8	14.9	1.6	0.3	50.2	54.6
Japan	2007	643	81.1	7.0	81.1	4.5	6.3	1.1	0.1	79.2	82.8
	2011	637	79.1	8.3	79.1	3.5	8.8	0.2	0.1	77.9	80.2
Kuwait	2007	537	39.3	16.5	39.3	13.1	19.2	6.0	5.9	40.2	38.4
	2011	584	40.8	14.9	40.8	17.4	20.1	5.4	1.4	44.5	36.4
Lithuania	2007	559	61.7	15.3	61.7	6.7	15.0	1.3	0.0	55.9	66.6
	2011	678	69.1	13.2	69.1	5.7	11.1	1.0	0.0	61.9	75.2
Netherlands	2007	479	63.5	14.3	63.5	9.3	12.0	0.0	0.8	56.9	68.9
	2011	452	60.2	15.7	60.2	8.5	15.1	0.2	0.2	52.6	68.0
New Zealand	2007	702	53.7	18.4	53.7	7.3	18.9	0.8	0.9	47.3	58.8
	2011	792	56.2	16.9	56.2	9.4	16.2	0.4	0.9	50.6	61.5
Norway	2007	586	53.8	18.4	53.8	9.9	14.6	1.1	2.2	46.7	62.1
	2011	423	51.2	19.3	51.2	9.8	16.9	2.0	0.7	38.6	62.9
Russian Federation	2007	632	68.1	14.2	68.1	5.0	11.1	1.0	0.6	65.4	71.1
	2011	639	67.3	16.5	67.3	6.6	8.8	0.7	0.1	59.1	73.9
Singapore	2007	712	89.4	3.0	89.4	2.6	4.9	0.0	0.1	89.0	89.7
	2011	913	87.1	3.7	87.1	3.8	5.1	0.1	0.2	86.6	87.5
Slovak Republic	2007	711	59.0	16.6	59.0	7.9	12.8	2.9	0.9	52.5	65.0
	2011	786	69.3	11.9	69.3	5.8	11.9	0.9	0.2	65.5	72.7
Slovenia	2007	625	63.9	6.6	63.9	15.9	11.2	1.1	1.3	56.2	71.2
	2011	642	68.4	7.1	68.4	13.0	9.5	1.0	1.1	65.1	71.8

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

S06_11 (S041069): Physical Science / Applying
Label: Shadow along which line - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	672	63.5	14.3	63.5	7.1	12.4	0.5	2.1	56.6	70.0
	2011	680	58.5	16.0	58.5	8.4	15.1	1.0	1.1	53.6	63.3
Tunisia	2007	590	34.0	10.8	34.0	15.4	17.3	13.0	9.5	36.0	32.1
	2011	683	32.7	11.9	32.7	17.5	20.9	9.5	7.5	29.3	36.1
United States	2007	1138	59.1	15.0	59.1	6.9	17.7	0.6	0.6	55.2	63.0
	2011	1798	61.9	17.5	61.9	7.0	12.5	0.6	0.5	53.8	70.2
International Avg. (25)	2007	15775	59.9	14.6	59.9	8.0	13.7	2.1	1.6	55.9	63.9
	2011	17524	61.4	13.8	61.4	8.3	13.9	1.6	1.0	56.1	66.3
Alberta, Canada	2007	571	69.5	13.1	69.5	6.5	9.3	0.6	1.0	64.0	74.8
	2011	517	64.9	15.2	64.9	5.9	12.4	0.4	1.1	59.6	68.9
Ontario, Canada	2007	500	59.8	14.8	59.8	4.4	18.5	0.5	1.9	56.1	63.2
	2011	639	56.8	18.1	56.8	6.5	16.9	0.9	0.9	52.9	60.7
Quebec, Canada	2007	562	51.6	12.6	51.6	12.7	21.6	0.8	0.7	47.1	55.2
	2011	603	49.4	12.9	49.4	13.0	22.4	1.4	0.8	40.0	58.2
Dubai, UAE	2007	436	48.1	15.1	48.1	15.2	17.6	2.5	1.4	42.4	53.2
	2011	888	50.9	15.3	50.9	10.1	20.4	1.8	1.4	46.5	54.8

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

S06_12 (S041100): Earth Science / Knowing

Label: Reason for direction river flows - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	53.7	19.7	53.7	14.6	8.0	2.3	1.7	56.8	49.6
	2011	867	57.1	21.8	57.1	10.5	8.7	1.4	0.4	49.6	65.1
Austria	2007	695	50.0	16.6	50.0	17.5	13.3	2.3	0.2	40.1	61.2
	2011	661	49.0	21.2	49.0	16.8	11.0	2.0	0.0	40.2	57.5
Chinese Taipei	2007	589	76.9	11.1	76.9	2.8	8.6	0.5	0.0	76.6	77.2
	2011	612	76.9	13.8	76.9	3.1	5.4	0.6	0.2	75.4	78.3
Czech Republic	2007	609	45.8	20.0	45.8	25.5	6.0	1.4	1.2	43.2	48.4
	2011	647	56.2	15.5	56.2	20.7	5.9	1.3	0.5	55.0	57.4
Denmark	2007	484	38.8	21.3	38.8	22.8	9.8	5.8	1.5	38.6	39.0
	2011	556	44.0	20.4	44.0	21.4	7.3	4.2	2.7	44.1	43.8
England	2007	613	59.8	15.3	59.8	10.1	12.9	1.3	0.7	61.1	58.5
	2011	490	53.0	18.2	53.0	15.0	11.2	0.7	1.9	47.1	59.0
Georgia	2007	588	43.6	19.9	43.6	22.2	7.0	3.7	3.6	40.1	47.5
	2011	686	46.2	16.8	46.2	25.4	8.4	1.5	1.8	42.7	48.9
Germany	2007	742	56.0	12.0	56.0	14.7	14.6	1.7	0.9	48.0	63.9
	2011	573	51.3	16.7	51.3	14.8	13.0	4.1	0.2	40.6	61.8
Hong Kong SAR	2007	539	66.5	15.7	66.5	8.4	8.0	1.1	0.3	66.0	67.0
	2011	568	67.3	17.1	67.3	7.8	6.8	0.6	0.4	67.3	67.2
Hungary	2007	574	54.4	9.6	54.4	14.5	14.3	6.1	1.1	48.7	60.5
	2011	745	50.6	12.6	50.6	18.4	15.4	2.0	1.1	47.3	53.4
Iran, Islamic Rep. of	2007	551	30.1	21.1	30.1	20.9	19.6	5.0	3.2	27.6	33.0
	2011	818	33.8	22.5	33.8	20.0	19.2	2.1	2.4	25.8	40.9
Italy	2007	642	56.1	16.8	56.1	15.0	8.6	2.0	1.6	52.2	59.9
	2011	595	54.7	19.0	54.7	15.4	10.1	0.4	0.4	50.6	58.9
Japan	2007	643	71.6	3.7	71.6	10.1	13.9	0.3	0.5	69.1	74.1
	2011	637	69.9	4.6	69.9	10.6	14.1	0.6	0.1	69.3	70.4
Kuwait	2007	537	22.2	32.6	22.2	20.2	13.6	4.5	6.9	19.4	25.3
	2011	581	25.0	45.4	25.0	14.7	8.1	5.1	1.6	21.2	29.6
Lithuania	2007	559	39.7	16.5	39.7	29.5	11.7	2.6	0.0	36.0	42.7
	2011	678	35.1	23.9	35.1	22.7	16.5	1.8	0.0	33.2	36.7
Netherlands	2007	479	57.6	13.6	57.6	10.2	16.2	1.5	0.8	51.6	62.5
	2011	452	56.8	13.7	56.8	13.4	14.9	0.9	0.2	58.3	55.4
New Zealand	2007	702	57.2	13.6	57.2	12.0	14.3	1.8	1.1	54.5	59.3
	2011	792	51.2	21.5	51.2	13.3	11.5	1.6	0.9	52.4	50.1
Norway	2007	586	43.7	27.7	43.7	12.5	11.3	2.7	2.2	41.5	46.2
	2011	423	48.0	29.7	48.0	11.0	8.1	2.2	1.0	46.6	49.4
Russian Federation	2007	632	53.5	12.3	53.5	21.7	10.4	1.5	0.6	55.1	51.7
	2011	639	57.5	12.5	57.5	15.5	12.7	1.7	0.1	56.5	58.2
Singapore	2007	712	58.2	15.6	58.2	8.3	17.5	0.3	0.1	57.3	59.0
	2011	913	58.4	16.0	58.4	8.8	16.2	0.3	0.2	58.4	58.4
Slovak Republic	2007	711	49.4	18.8	49.4	17.7	11.5	1.8	0.9	44.7	53.8
	2011	786	57.3	17.4	57.3	15.7	8.3	0.9	0.6	56.8	57.7
Slovenia	2007	625	41.3	16.6	41.3	14.8	22.8	3.2	1.3	37.5	45.0
	2011	646	33.7	18.3	33.7	17.4	26.4	3.0	1.2	34.1	33.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S06_12 (S041100): Earth Science / Knowing

Label: Reason for direction river flows - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	675	61.5	13.3	61.5	8.0	11.8	3.5	2.1	59.4	63.4
	2011	680	61.6	14.9	61.6	8.9	11.7	1.5	1.5	59.6	63.5
Tunisia	2007	590	18.8	30.1	18.8	17.6	10.1	11.4	12.0	17.1	20.4
	2011	689	22.2	34.0	22.2	17.9	9.9	6.6	9.3	18.7	25.7
United States	2007	1138	53.2	23.5	53.2	13.3	7.8	1.5	0.8	51.6	54.8
	2011	1798	53.2	25.9	53.2	11.5	8.0	0.8	0.6	49.2	57.4
International Avg. (25)	2007	15790	50.4	17.5	50.4	15.4	12.1	2.8	1.8	47.8	53.0
	2011	17532	50.8	19.7	50.8	14.8	11.5	1.9	1.2	48.0	53.5
Alberta, Canada	2007	571	62.5	16.4	62.5	10.3	7.6	2.2	1.0	58.8	66.0
	2011	517	57.9	18.4	57.9	12.2	9.3	0.9	1.4	50.0	63.9
Ontario, Canada	2007	500	53.9	21.9	53.9	10.7	10.6	1.0	1.9	46.9	60.2
	2011	639	47.4	26.0	47.4	15.7	8.3	1.6	1.0	41.6	53.3
Quebec, Canada	2007	562	43.3	26.9	43.3	14.8	11.8	2.5	0.7	41.0	45.1
	2011	603	44.6	31.0	44.6	11.8	9.9	2.0	0.8	38.8	49.9
Dubai, UAE	2007	436	30.3	34.2	30.3	17.7	13.7	2.7	1.4	28.8	31.7
	2011	888	34.6	35.0	34.6	14.2	12.3	2.4	1.4	28.8	39.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S06_l3 (S041092): Earth Science / Knowing
Label: Drinking water comes from - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	57.8	17.4	12.5	8.2	57.8	1.4	2.7	59.5	55.4
	2011	867	57.3	15.3	14.8	10.2	57.3	1.2	1.2	64.4	49.8
Austria	2007	695	66.4	24.1	5.2	2.8	66.4	0.7	0.8	65.3	67.7
	2011	661	67.6	21.6	6.8	3.5	67.6	0.3	0.2	68.2	67.0
Chinese Taipei	2007	589	69.2	17.0	9.9	3.8	69.2	0.0	0.1	71.6	67.0
	2011	612	75.6	13.6	5.8	4.2	75.6	0.5	0.4	74.9	76.2
Czech Republic	2007	609	77.0	14.3	4.0	2.7	77.0	0.7	1.3	75.3	78.6
	2011	647	74.8	16.9	4.5	2.4	74.8	0.8	0.6	76.0	73.5
Denmark	2007	482	59.1	24.9	6.1	5.5	59.1	1.6	2.7	58.1	60.2
	2011	556	60.9	25.1	6.5	3.7	60.9	1.2	2.7	65.8	56.1
England	2007	613	71.8	10.7	9.5	6.2	71.8	0.6	1.1	71.2	72.4
	2011	490	63.1	15.6	11.7	6.8	63.1	0.8	2.1	64.2	61.9
Georgia	2007	588	42.1	31.8	11.7	7.8	42.1	2.2	4.4	42.0	42.3
	2011	686	47.9	25.6	14.3	8.7	47.9	1.8	1.8	47.4	48.2
Germany	2007	742	64.7	28.1	2.0	2.6	64.7	1.0	1.5	63.5	65.9
	2011	573	57.6	31.7	5.1	4.1	57.6	0.9	0.7	53.5	61.6
Hong Kong SAR	2007	539	74.2	7.9	9.6	7.3	74.2	0.2	0.8	74.6	73.8
	2011	568	73.1	6.5	9.3	9.9	73.1	0.4	0.8	71.6	74.1
Hungary	2007	574	68.2	16.1	6.2	4.1	68.2	1.4	4.1	61.0	75.8
	2011	745	70.9	16.4	6.9	3.6	70.9	0.6	1.6	71.1	70.7
Iran, Islamic Rep. of	2007	551	55.7	12.9	9.9	14.5	55.7	2.2	4.8	57.9	53.2
	2011	818	50.2	13.2	14.2	17.9	50.2	1.7	2.7	52.8	48.0
Italy	2007	645	48.5	25.3	16.6	6.3	48.5	1.1	2.2	46.7	50.2
	2011	595	43.8	26.3	17.6	10.4	43.8	1.1	0.8	43.5	44.1
Japan	2007	643	83.2	5.5	6.2	3.8	83.2	0.8	0.5	88.2	78.4
	2011	637	83.0	6.4	6.1	3.9	83.0	0.1	0.4	82.8	83.2
Kuwait	2007	537	51.3	9.8	17.1	11.2	51.3	2.1	8.5	58.3	43.7
	2011	583	40.8	12.6	19.2	18.6	40.8	6.2	2.7	41.6	39.8
Lithuania	2007	559	31.7	57.0	6.6	3.3	31.7	1.2	0.2	32.8	30.8
	2011	678	42.1	48.5	3.7	4.6	42.1	0.6	0.4	40.0	43.9
Netherlands	2007	479	68.8	12.9	10.5	6.3	68.8	0.6	1.0	68.7	68.9
	2011	452	65.6	11.2	12.2	10.6	65.6	0.2	0.2	68.4	62.7
New Zealand	2007	702	58.8	15.0	12.5	11.8	58.8	0.8	1.1	62.8	55.5
	2011	792	55.6	18.0	12.1	12.6	55.6	0.5	1.2	56.6	54.6
Norway	2007	586	54.6	11.1	13.8	15.6	54.6	1.7	3.3	51.8	57.9
	2011	423	63.6	7.3	9.4	17.4	63.6	0.3	2.0	59.6	67.4
Russian Federation	2007	632	75.5	9.3	5.9	8.0	75.5	0.3	0.9	78.6	72.1
	2011	639	81.8	6.6	4.8	6.1	81.8	0.1	0.7	83.9	80.1
Singapore	2007	712	71.8	9.2	10.0	9.0	71.8	0.0	0.1	73.5	70.2
	2011	913	70.6	10.7	11.3	6.7	70.6	0.4	0.2	72.8	68.4
Slovak Republic	2007	711	69.3	19.4	6.0	3.4	69.3	0.5	1.4	68.2	70.4
	2011	786	67.5	23.9	4.9	2.4	67.5	0.1	1.2	65.0	69.7
Slovenia	2007	625	67.2	21.5	5.6	3.2	67.2	0.3	2.2	65.5	68.9
	2011	647	72.2	17.9	5.1	2.1	72.2	1.2	1.5	73.2	71.2

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

S06_13 (S041092): Earth Science / Knowing
Label: Drinking water comes from - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	674	66.0	13.0	3.6	13.4	66.0	0.3	3.7	68.4	63.7
	2011	680	74.1	6.6	5.4	11.3	74.1	0.6	2.0	73.8	74.3
Tunisia	2007	590	28.1	13.3	15.9	18.7	28.1	9.2	14.8	34.2	22.4
	2011	686	29.8	15.9	18.8	19.3	29.8	4.2	12.0	31.7	28.0
United States	2007	1138	66.9	11.8	9.5	9.4	66.9	1.2	1.3	68.9	64.9
	2011	1798	65.1	11.4	12.1	9.7	65.1	0.5	1.2	66.8	63.3

International Avg. (25)	2007	15790	61.9	17.6	9.1	7.6	61.9	1.3	2.6	62.7	61.2
	2011	17532	62.2	17.0	9.7	8.4	62.2	1.1	1.7	62.8	61.5

Alberta, Canada	2007	571	59.3	13.0	15.1	9.8	59.3	1.0	1.8	53.9	64.5
	2011	517	65.3	11.7	11.0	9.6	65.3	1.0	1.5	62.7	67.2
Ontario, Canada	2007	500	60.7	12.4	10.5	12.5	60.7	1.1	2.9	62.5	59.0
	2011	639	58.7	13.9	9.9	15.0	58.7	1.0	1.5	58.6	58.8
Quebec, Canada	2007	562	54.2	18.0	14.7	9.4	54.2	1.9	1.7	48.1	59.1
	2011	603	62.3	18.1	11.0	6.1	62.3	1.4	1.2	63.6	61.2
Dubai, UAE	2007	436	55.9	20.3	9.8	10.5	55.9	1.2	2.3	52.3	59.2
	2011	888	51.6	23.8	12.0	9.1	51.6	1.5	1.9	53.7	49.8

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

S07_01 (S031254): Life Science / Knowing

Label: Animal with young and adult forms - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	50.3	19.9	50.3	12.4	15.9	1.5	0.0	48.1	52.9
	2011	868	54.0	22.3	54.0	12.0	10.8	0.8	0.1	48.9	58.7
Austria	2007	694	52.2	25.5	52.2	8.5	12.1	1.7	0.0	50.3	54.1
	2011	667	50.1	26.1	50.1	10.9	11.5	1.5	0.0	46.3	53.3
Chinese Taipei	2007	591	83.0	5.0	83.0	7.0	3.8	1.3	0.0	85.1	81.1
	2011	611	86.4	5.1	86.4	4.7	3.0	0.8	0.0	85.1	87.5
Czech Republic	2007	602	71.9	10.4	71.9	7.1	5.9	4.6	0.0	75.7	68.5
	2011	651	66.9	15.3	66.9	8.1	6.9	2.8	0.0	66.2	67.6
Denmark	2007	496	63.9	13.5	63.9	10.8	8.6	2.5	0.6	58.0	70.0
	2011	557	57.2	14.8	57.2	13.5	10.9	3.2	0.3	56.3	58.2
England	2007	601	52.9	20.9	52.9	13.8	11.5	0.9	0.0	53.1	52.7
	2011	479	52.1	24.4	52.1	11.4	11.0	0.9	0.2	48.8	55.6
Georgia	2007	590	55.0	15.1	55.0	18.0	8.0	3.6	0.4	50.4	59.1
	2011	692	56.3	17.1	56.3	13.5	9.8	2.8	0.5	55.3	57.2
Germany	2007	727	49.0	26.9	49.0	8.8	13.4	1.9	0.0	47.6	50.6
	2011	573	43.5	29.8	43.5	9.2	16.1	1.3	0.0	43.7	43.4
Hong Kong SAR	2007	535	71.0	18.1	71.0	7.7	2.8	0.4	0.0	69.9	72.2
	2011	570	68.3	21.3	68.3	5.7	4.1	0.6	0.0	62.2	72.9
Hungary	2007	572	76.0	9.8	76.0	8.3	2.7	2.4	0.8	75.9	76.0
	2011	742	78.1	8.4	78.1	7.8	4.2	1.3	0.2	76.8	79.2
Iran, Islamic Rep. of	2007	554	55.6	7.3	55.6	21.6	12.5	2.0	0.8	50.1	61.4
	2011	827	62.4	7.9	62.4	17.0	10.5	0.9	1.2	67.4	57.9
Italy	2007	638	81.7	7.5	81.7	6.4	3.2	1.0	0.2	82.0	81.4
	2011	590	77.9	8.2	77.9	7.7	5.4	0.8	0.1	79.1	76.8
Japan	2007	648	80.8	6.5	80.8	9.5	2.5	0.7	0.0	78.6	83.0
	2011	631	83.1	4.4	83.1	8.6	3.3	0.6	0.0	84.0	82.2
Kuwait	2007	533	35.6	18.2	35.6	20.9	19.8	4.6	1.0	31.6	40.1
	2011	588	30.7	18.9	30.7	26.4	17.1	6.6	0.2	27.1	35.3
Lithuania	2007	565	47.4	22.9	47.4	15.0	13.0	1.3	0.3	47.6	47.3
	2011	.	.	.	.	.	.	.	.	.	.
Netherlands	2007	473	43.2	33.7	43.2	16.1	5.5	1.2	0.2	45.3	41.2
	2011	470	44.3	29.7	44.3	16.2	8.7	1.1	0.0	45.4	43.3
New Zealand	2007	703	53.1	18.7	53.1	12.1	15.3	0.8	0.1	46.3	58.5
	2011	807	49.2	22.8	49.2	12.4	14.4	1.0	0.2	44.7	53.1
Norway	2007	594	50.9	23.7	50.9	14.9	8.7	1.1	0.7	48.6	53.8
	2011	442	55.5	21.4	55.5	15.5	6.0	1.2	0.3	54.9	56.2
Russian Federation	2007	632	73.0	7.1	73.0	10.0	8.7	1.2	0.0	70.6	75.7
	2011	644	74.0	10.2	74.0	6.6	8.3	0.9	0.0	71.7	76.0
Singapore	2007	728	71.4	14.1	71.4	8.3	6.1	0.1	0.0	70.6	72.2
	2011	915	75.8	15.2	75.8	6.2	2.5	0.3	0.0	74.0	77.5
Slovak Republic	2007	706	72.5	8.3	72.5	9.5	7.5	1.9	0.3	72.1	72.9
	2011	795	71.3	8.9	71.3	9.2	9.4	0.9	0.3	68.1	74.7
Slovenia	2007	631	72.3	12.5	72.3	5.7	7.1	1.6	0.8	70.6	74.0
	2011	632	72.3	12.2	72.3	8.0	6.3	1.1	0.1	74.9	70.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S07_01 (S031254): Life Science / Knowing

Label: Animal with young and adult forms - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	668	52.4	27.4	52.4	10.7	5.6	2.9	0.9	58.2	47.5
	2011	676	50.1	31.8	50.1	9.4	5.4	3.2	0.1	53.0	47.4
Tunisia	2007	584	22.6	10.1	22.6	23.7	22.7	16.6	4.3	20.6	24.4
	2011	662	28.4	10.3	28.4	23.2	26.6	8.4	3.0	25.3	31.5
United States	2007	1131	50.0	23.9	50.0	14.0	10.7	1.2	0.2	48.6	51.5
	2011	1812	49.7	24.7	49.7	13.5	11.5	0.4	0.2	48.5	50.9

International Avg. (25)	2007	15778	59.5	16.3	59.5	12.0	9.3	2.4	0.5	58.2	60.9
	2011	16901	59.9	17.1	59.9	11.5	9.3	1.8	0.3	58.6	61.1

Alberta, Canada	2007	572	56.4	19.1	56.4	13.3	10.0	1.1	0.0	53.8	58.9
	2011	518	55.4	20.4	55.4	9.1	13.2	1.3	0.5	53.7	56.7
Ontario, Canada	2007	487	49.0	26.2	49.0	12.8	10.7	0.6	0.8	46.3	51.6
	2011	659	51.9	22.2	51.9	13.2	10.5	1.8	0.3	50.1	53.6
Quebec, Canada	2007	563	51.8	20.8	51.8	13.7	10.9	2.5	0.2	51.9	51.6
	2011	595	53.8	22.0	53.8	12.2	10.7	1.3	0.0	52.9	54.7
Dubai, UAE	2007	455	46.5	18.8	46.5	15.4	15.1	4.2	0.0	43.3	49.3
	2011	877	41.5	21.7	41.5	19.7	15.7	1.1	0.4	42.0	41.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S07_02 (S031266): Life Science / Reasoning

Label: Only female Siberian tigers left - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	63.2	14.3	13.1	6.8	63.2	2.6	0.0	65.0	61.0
	2011	868	59.6	15.3	16.5	6.6	59.6	1.9	0.1	57.1	61.9
Austria	2007	694	56.0	20.1	14.7	5.1	56.0	3.9	0.2	50.5	61.7
	2011	667	56.4	22.9	12.5	4.5	56.4	3.7	0.0	52.6	59.6
Chinese Taipei	2007	591	56.0	22.2	11.7	8.9	56.0	1.1	0.0	59.6	52.9
	2011	611	67.4	18.9	8.4	4.9	67.4	0.5	0.0	65.8	68.7
Czech Republic	2007	602	51.7	24.9	8.1	11.5	51.7	3.7	0.1	54.3	49.3
	2011	651	62.1	21.7	6.4	8.3	62.1	1.6	0.0	63.3	60.9
Denmark	2007	496	65.2	11.8	8.2	8.7	65.2	5.3	0.7	66.9	63.4
	2011	557	69.5	15.0	7.9	3.9	69.5	3.5	0.3	73.3	65.6
England	2007	601	65.2	16.2	12.1	5.0	65.2	1.5	0.0	70.2	60.4
	2011	479	63.0	15.3	11.7	7.5	63.0	2.3	0.2	66.7	59.2
Georgia	2007	590	37.5	30.9	14.0	8.4	37.5	8.1	1.1	37.0	38.0
	2011	692	38.7	26.3	19.5	10.7	38.7	4.3	0.5	41.5	36.2
Germany	2007	727	61.2	21.8	8.5	4.4	61.2	3.8	0.4	61.9	60.3
	2011	573	58.9	21.9	12.4	4.2	58.9	2.5	0.0	56.8	61.1
Hong Kong SAR	2007	535	68.5	11.7	9.1	9.8	68.5	0.9	0.0	69.3	67.8
	2011	570	72.4	9.7	8.7	8.8	72.4	0.4	0.0	73.1	71.9
Hungary	2007	572	72.8	7.3	10.5	6.2	72.8	2.3	0.9	70.1	75.3
	2011	742	73.9	10.1	10.1	4.2	73.9	1.4	0.3	78.5	69.8
Iran, Islamic Rep. of	2007	554	31.1	19.9	22.1	18.3	31.1	7.6	1.0	35.0	26.9
	2011	827	27.6	26.0	19.7	17.4	27.6	7.8	1.4	28.4	26.9
Italy	2007	640	57.9	25.0	8.4	5.6	57.9	2.8	0.2	55.7	60.0
	2011	590	56.2	25.6	9.6	7.0	56.2	1.6	0.1	54.7	57.5
Japan	2007	648	60.3	20.2	12.4	6.6	60.3	0.5	0.0	59.6	61.0
	2011	631	56.1	16.5	14.6	11.9	56.1	0.9	0.0	55.0	57.1
Kuwait	2007	533	25.3	13.2	24.8	23.2	25.3	12.4	1.2	27.4	22.9
	2011	580	28.2	19.5	21.2	22.9	28.2	7.8	0.4	29.5	26.5
Lithuania	2007	565	67.4	23.1	3.8	3.9	67.4	1.5	0.3	69.3	65.5
	2011	669	60.4	24.8	6.0	7.2	60.4	1.5	0.1	63.7	57.2
Netherlands	2007	473	67.2	19.1	7.1	4.8	67.2	1.6	0.2	69.7	64.9
	2011	470	64.2	20.7	8.5	5.3	64.2	1.3	0.0	64.8	63.7
New Zealand	2007	703	56.7	15.4	13.9	12.4	56.7	1.5	0.1	58.3	55.4
	2011	807	51.8	18.8	17.8	9.9	51.8	1.5	0.2	50.8	52.6
Norway	2007	594	55.9	17.3	12.6	10.4	55.9	2.9	0.8	58.4	52.8
	2011	442	61.6	18.7	9.6	7.9	61.6	1.9	0.3	60.9	62.4
Russian Federation	2007	632	75.1	13.4	5.4	4.4	75.1	1.6	0.0	76.7	73.3
	2011	644	74.8	10.3	8.5	5.2	74.8	1.1	0.0	75.8	74.0
Singapore	2007	728	66.9	15.4	10.9	6.7	66.9	0.1	0.0	67.2	66.6
	2011	915	73.7	11.4	9.2	5.4	73.7	0.3	0.0	74.0	73.4
Slovak Republic	2007	706	73.5	11.0	6.5	6.6	73.5	2.1	0.4	75.8	71.2
	2011	795	76.0	8.6	7.6	7.0	76.0	0.6	0.3	76.9	75.0
Slovenia	2007	631	66.3	12.1	10.4	7.5	66.3	2.9	0.8	65.1	67.4
	2011	631	65.0	12.6	10.2	9.5	65.0	2.6	0.1	67.1	63.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S07_02 (S031266): Life Science / Reasoning

Label: Only female Siberian tigers left - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	71.2	13.9	9.6	3.2	71.2	1.2	0.9	73.3	69.4
	2011	676	71.8	14.6	8.2	3.7	71.8	1.3	0.3	71.9	71.7
Tunisia	2007	584	24.9	8.7	17.0	26.7	24.9	18.3	4.5	25.8	24.1
	2011	683	19.5	11.9	23.3	31.6	19.5	10.3	3.4	24.7	14.4
United States	2007	1131	58.4	18.6	12.3	8.2	58.4	2.2	0.2	58.8	58.1
	2011	1812	63.6	17.6	11.8	6.1	63.6	0.6	0.2	64.2	63.0

International Avg. (25)	2007	15781	58.2	17.1	11.5	8.9	58.2	3.7	0.6	59.2	57.2
	2011	17582	58.9	17.4	12.0	8.9	58.9	2.5	0.3	59.6	58.1

Alberta, Canada	2007	572	59.5	20.3	12.9	5.8	59.5	1.5	0.0	59.3	59.7
	2011	518	58.2	19.9	12.9	6.5	58.2	1.9	0.5	59.0	57.5
Ontario, Canada	2007	487	59.3	18.7	12.1	7.9	59.3	1.2	0.8	58.7	59.9
	2011	659	51.6	20.0	16.5	9.7	51.6	1.9	0.3	51.3	51.9
Quebec, Canada	2007	563	66.8	15.1	10.7	4.4	66.8	2.8	0.2	68.3	65.3
	2011	595	64.8	17.5	10.8	5.2	64.8	1.6	0.0	66.8	62.8
Dubai, UAE	2007	455	34.4	16.6	20.3	20.9	34.4	7.4	0.4	35.0	33.9
	2011	877	36.7	21.1	22.6	16.0	36.7	3.2	0.4	35.3	38.0

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

S07_03 (S031233): Life Science / Applying
Label: Main features of four animals - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	68.7	12.9	11.4	5.2	1.5	0.3	68.7	72.6	64.0
	2011	868	69.6	12.9	12.4	4.5	0.5	0.2	69.6	64.1	74.7
Austria	2007	694	64.1	13.0	15.4	6.0	1.1	0.3	64.1	63.0	65.4
	2011	667	62.7	15.3	15.7	4.6	1.8	0.0	62.7	62.8	62.5
Chinese Taipei	2007	591	66.0	3.1	29.1	1.4	0.4	0.0	66.0	68.7	63.6
	2011	611	69.1	2.6	27.4	0.8	0.2	0.0	69.1	71.6	67.0
Czech Republic	2007	602	64.8	26.1	6.1	2.2	0.7	0.1	64.8	66.7	63.1
	2011	651	62.8	25.8	9.3	1.8	0.3	0.0	62.8	61.2	64.4
Denmark	2007	495	70.1	11.0	13.7	3.1	1.3	0.7	70.1	72.7	67.5
	2011	557	76.1	6.6	11.9	4.0	1.1	0.3	76.1	76.0	76.3
England	2007	601	65.1	17.0	12.5	4.8	0.5	0.0	65.1	63.2	67.0
	2011	479	66.9	15.9	9.3	7.2	0.5	0.2	66.9	63.8	70.1
Georgia	2007	590	33.3	17.6	26.1	13.6	7.5	1.9	33.3	34.9	32.0
	2011	692	44.0	18.1	24.2	9.1	4.0	0.6	44.0	46.5	41.6
Germany	2007	727	66.8	13.5	11.4	4.8	2.8	0.7	66.8	64.9	68.9
	2011	573	65.6	14.2	12.7	5.5	1.9	0.0	65.6	61.0	70.5
Hong Kong SAR	2007	535	71.3	6.3	19.5	2.8	0.2	0.0	71.3	73.5	68.9
	2011	570	69.1	8.9	19.2	2.2	0.5	0.0	69.1	69.9	68.4
Hungary	2007	572	74.4	10.8	9.8	3.7	0.3	1.0	74.4	74.8	74.0
	2011	742	80.4	8.2	7.9	2.5	0.6	0.4	80.4	79.9	80.8
Iran, Islamic Rep. of	2007	554	45.4	24.6	16.1	9.1	3.6	1.2	45.4	45.6	45.2
	2011	826	50.0	18.9	16.7	11.0	1.8	1.6	50.0	49.2	50.8
Italy	2007	641	75.8	5.7	14.0	2.4	1.8	0.2	75.8	75.4	76.2
	2011	590	79.4	5.8	12.6	2.1	0.1	0.1	79.4	80.7	78.2
Japan	2007	648	69.3	3.0	26.9	0.7	0.1	0.1	69.3	70.8	67.7
	2011	631	70.0	5.1	23.9	0.5	0.5	0.0	70.0	68.7	71.3
Kuwait	2007	533	24.3	24.4	24.8	18.3	7.1	1.2	24.3	28.4	19.5
	2011	591	29.0	25.1	20.3	19.3	5.8	0.4	29.0	32.7	24.5
Lithuania	2007	565	58.6	19.9	14.1	6.2	0.8	0.4	58.6	56.0	61.2
	2011	669	62.6	19.8	10.5	5.9	1.0	0.1	62.6	62.1	63.2
Netherlands	2007	473	58.2	19.5	16.5	5.0	0.6	0.2	58.2	56.9	59.5
	2011	470	60.1	21.0	13.3	4.4	1.0	0.2	60.1	59.5	60.6
New Zealand	2007	703	62.2	15.5	14.8	5.5	1.8	0.1	62.2	61.5	62.8
	2011	807	59.3	16.3	16.6	6.8	0.7	0.3	59.3	62.2	56.9
Norway	2007	594	60.9	14.0	18.7	3.9	1.5	0.9	60.9	60.8	61.1
	2011	442	63.1	13.2	20.6	1.6	1.2	0.3	63.1	62.2	64.1
Russian Federation	2007	632	64.2	16.3	10.8	6.5	1.5	0.6	64.2	62.8	65.7
	2011	644	72.0	16.4	8.5	2.0	1.1	0.0	72.0	71.7	72.3
Singapore	2007	728	80.1	7.7	9.7	2.2	0.3	0.0	80.1	79.8	80.4
	2011	915	83.0	6.1	8.2	2.5	0.2	0.0	83.0	84.1	82.0
Slovak Republic	2007	706	67.2	17.4	8.3	4.5	2.0	0.6	67.2	71.1	63.3
	2011	795	75.2	9.2	9.6	3.9	1.6	0.5	75.2	77.3	72.9
Slovenia	2007	631	44.0	32.2	9.1	12.7	1.1	0.8	44.0	39.2	48.6
	2011	633	58.3	21.2	10.2	8.7	1.4	0.1	58.3	55.7	60.7

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

S07_03 (S031233): Life Science / Applying

Label: Main features of four animals - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	66.1	10.6	18.2	3.4	0.6	1.1	66.1	72.8	60.4
	2011	676	64.9	11.0	19.0	3.5	1.1	0.3	64.9	71.6	58.9
Tunisia	2007	584	22.3	26.1	14.4	23.2	8.9	5.2	22.3	25.6	19.3
	2011	700	25.7	17.3	16.8	30.5	5.4	4.2	25.7	25.5	25.9
United States	2007	1131	65.5	18.4	9.9	4.9	0.9	0.4	65.5	65.6	65.4
	2011	1812	69.3	17.0	8.4	4.1	0.9	0.2	69.3	68.6	70.0
International Avg. (25)	2007	15781	60.4	15.5	15.3	6.3	2.0	0.7	60.4	61.1	59.6
	2011	17611	63.5	14.1	14.6	6.0	1.4	0.4	63.5	63.5	63.5
Alberta, Canada	2007	572	62.3	14.7	15.5	5.3	1.9	0.2	62.3	56.5	67.9
	2011	518	65.6	16.2	12.4	3.8	1.5	0.5	65.6	67.7	64.0
Ontario, Canada	2007	487	55.1	18.7	13.8	9.7	1.9	0.8	55.1	52.0	58.1
	2011	659	63.1	17.5	13.0	4.7	1.2	0.5	63.1	62.7	63.6
Quebec, Canada	2007	563	67.1	14.6	12.0	5.0	1.0	0.2	67.1	70.8	63.4
	2011	595	67.5	15.3	12.3	3.8	1.1	0.1	67.5	65.9	69.2
Dubai, UAE	2007	455	42.1	24.6	19.6	9.8	3.1	0.9	42.1	41.3	42.7
	2011	877	48.1	20.2	18.8	10.7	1.9	0.4	48.1	46.6	49.4

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

S07_04 (S031204): Physical Science / Applying
Label: Coarse & fine salt added to water - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	49.5	24.8	13.3	10.5	0.5	1.0	0.3	49.5	51.6	47.1
	2011	868	46.6	25.3	14.8	11.8	0.8	0.5	0.2	46.6	49.9	43.5
Austria	2007	694	37.6	39.4	9.3	11.0	0.3	2.1	0.3	37.6	40.0	35.1
	2011	667	42.1	39.7	9.2	6.8	0.5	1.4	0.3	42.1	48.3	37.0
Chinese Taipei	2007	591	59.6	27.5	5.3	0.0	7.4	0.2	0.0	59.6	68.3	52.0
	2011	611	57.5	28.9	7.9	3.4	2.1	0.2	0.0	57.5	61.9	53.8
Czech Republic	2007	602	33.9	41.8	8.0	13.5	0.9	1.7	0.1	33.9	38.5	29.7
	2011	651	37.2	39.6	7.5	12.1	1.4	2.3	0.0	37.2	35.9	38.4
Denmark	2007	495	33.3	30.6	18.5	13.4	1.4	1.7	1.1	33.3	39.3	27.2
	2011	557	45.9	18.6	11.1	10.4	11.0	2.6	0.4	45.9	45.0	46.7
England	2007	601	46.0	32.9	12.3	6.7	0.7	1.5	0.0	46.0	50.8	41.2
	2011	479	45.0	34.1	8.5	10.4	0.7	1.2	0.2	45.0	47.5	42.3
Georgia	2007	590	8.3	61.8	7.9	8.2	4.7	6.6	2.4	8.3	10.0	6.8
	2011	692	21.9	48.8	6.1	6.6	9.0	6.5	1.1	21.9	26.2	18.1
Germany	2007	727	48.9	33.4	6.3	8.5	0.5	1.3	1.1	48.9	53.5	44.0
	2011	573	46.9	35.2	8.5	7.5	0.7	0.9	0.3	46.9	50.1	43.5
Hong Kong SAR	2007	535	48.8	32.3	6.4	11.1	1.2	0.3	0.0	48.8	54.9	42.4
	2011	570	37.8	42.9	7.4	10.7	0.6	0.4	0.2	37.8	43.4	33.5
Hungary	2007	572	40.7	37.0	5.0	11.9	3.1	1.1	1.0	40.7	40.4	41.1
	2011	742	36.6	41.4	5.0	12.1	3.0	1.5	0.5	36.6	42.1	31.7
Iran, Islamic Rep. of	2007	554	32.1	52.3	4.9	4.5	1.8	2.7	1.7	32.1	36.2	27.7
	2011	827	24.1	58.3	6.4	7.7	0.9	1.0	1.7	24.1	25.8	22.6
Italy	2007	641	40.6	38.6	3.0	10.5	3.1	3.7	0.5	40.6	42.8	38.5
	2011	590	51.2	30.3	6.8	9.4	1.3	0.9	0.1	51.2	55.1	47.8
Japan	2007	648	53.6	29.8	8.8	6.5	0.8	0.5	0.1	53.6	55.0	52.1
	2011	631	60.3	22.5	9.5	6.6	0.8	0.3	0.0	60.3	62.5	58.3
Kuwait	2007	.	.	.	.	.	.	.	.	.	.	.
	2011	591	17.2	48.7	13.1	7.0	7.2	6.0	0.8	17.2	20.0	13.9
Lithuania	2007	565	47.3	33.0	6.2	12.3	0.5	0.2	0.4	47.3	54.4	40.1
	2011	669	37.5	41.0	6.5	14.2	0.0	0.4	0.3	37.5	40.6	34.5
Netherlands	2007	473	40.7	37.5	10.4	8.0	2.5	0.7	0.2	40.7	47.1	34.4
	2011	470	44.5	37.3	9.6	5.9	1.0	1.2	0.4	44.5	50.8	38.1
New Zealand	2007	703	40.7	30.4	12.4	14.4	0.5	1.5	0.1	40.7	44.3	37.9
	2011	807	42.2	30.6	15.3	9.7	0.7	1.2	0.4	42.2	47.8	37.5
Norway	2007	594	20.3	38.8	20.7	14.7	2.3	2.3	0.9	20.3	24.7	15.0
	2011	442	25.5	31.8	23.0	16.0	0.0	2.3	1.3	25.5	26.7	24.2
Russian Federation	2007	632	40.9	38.2	2.3	16.5	0.7	0.5	0.8	40.9	41.5	40.3
	2011	644	33.4	48.5	3.4	11.6	1.8	1.1	0.2	33.4	34.8	32.3
Singapore	2007	728	50.5	32.1	6.6	10.4	0.3	0.2	0.0	50.5	54.1	46.8
	2011	915	54.1	28.1	9.0	7.9	0.7	0.2	0.0	54.1	61.2	47.4
Slovak Republic	2007	706	40.4	41.7	4.6	10.8	0.6	1.3	0.6	40.4	47.9	33.0
	2011	795	41.3	41.7	3.1	11.2	1.2	1.1	0.5	41.3	44.8	37.6
Slovenia	2007	631	45.4	37.6	7.1	7.2	1.0	0.8	1.0	45.4	46.9	43.9
	2011	633	52.0	31.3	7.6	7.3	1.3	0.3	0.2	52.0	52.2	51.9

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

S07_04 (S031204): Physical Science / Applying
Label: Coarse & fine salt added to water - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	35.0	30.4	18.6	12.2	1.3	1.3	1.3	35.0	38.5	31.9
	2011	676	43.6	29.5	17.1	7.5	0.1	1.9	0.3	43.6	45.1	42.2
Tunisia	2007	584	11.7	54.0	5.3	7.3	11.6	4.5	5.5	11.7	13.0	10.6
	2011	700	20.2	49.8	5.5	8.5	9.0	2.1	5.0	20.2	24.2	16.3
United States	2007	1131	53.6	23.1	8.8	10.7	2.1	1.0	0.6	53.6	57.2	50.0
	2011	1812	55.7	22.0	9.8	10.6	0.6	1.0	0.3	55.7	55.8	55.6
International Avg. (25)	2007	15248	40.0	36.6	8.8	10.0	2.1	1.6	0.8	40.0	43.8	36.2
	2011	17612	40.8	36.2	9.3	9.3	2.2	1.5	0.6	40.8	43.9	37.9
Alberta, Canada	2007	572	52.0	22.8	12.2	10.0	0.9	1.9	0.2	52.0	58.5	45.7
	2011	518	54.7	23.1	9.7	8.5	1.9	1.6	0.5	54.7	59.0	51.5
Ontario, Canada	2007	487	52.7	21.6	9.8	10.8	1.3	2.6	1.1	52.7	55.7	49.8
	2011	659	59.2	20.3	7.7	9.6	0.3	2.1	0.9	59.2	63.9	54.8
Quebec, Canada	2007	563	39.5	26.0	12.7	17.3	2.2	2.1	0.2	39.5	41.5	37.6
	2011	594	48.6	22.8	9.9	14.5	1.4	2.7	0.1	48.6	50.8	46.4
Dubai, UAE	2007	455	31.0	41.0	9.5	11.4	1.9	4.0	1.1	31.0	34.3	28.1
	2011	877	30.5	47.0	9.8	9.8	1.4	1.3	0.4	30.5	28.7	32.1

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

S07_05 (S031273): Physical Science / Applying
Label: Metal spoon and wooden spoon - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	58.0	17.6	58.0	11.5	11.2	1.0	0.6	60.7	54.9
	2011	868	64.7	17.2	64.7	6.8	10.1	0.8	0.2	59.9	69.2
Austria	2007	694	65.7	10.9	65.7	11.7	8.4	2.7	0.5	61.0	70.7
	2011	667	60.6	15.4	60.6	10.9	10.8	2.1	0.3	51.4	68.4
Chinese Taipei	2007	591	55.6	22.9	55.6	12.1	8.8	0.6	0.0	54.0	57.0
	2011	611	60.5	18.7	60.5	12.2	8.2	0.3	0.0	52.1	67.8
Czech Republic	2007	602	44.7	32.7	44.7	9.1	11.3	1.7	0.5	42.7	46.6
	2011	651	45.9	30.7	45.9	8.7	13.7	0.8	0.1	41.9	49.9
Denmark	2007	495	48.6	20.4	48.6	12.9	14.3	2.3	1.6	44.7	52.6
	2011	557	57.2	16.7	57.2	8.3	14.6	2.7	0.6	58.3	56.0
England	2007	601	71.7	11.2	71.7	7.2	8.6	1.3	0.1	67.6	75.6
	2011	479	72.1	10.7	72.1	7.5	8.0	1.5	0.2	70.7	73.5
Georgia	2007	590	29.9	31.9	29.9	11.5	18.2	4.4	4.1	27.0	32.4
	2011	692	53.9	23.4	53.9	8.2	11.1	1.4	2.0	58.0	50.3
Germany	2007	727	63.5	9.8	63.5	12.9	9.7	2.9	1.2	62.1	64.9
	2011	573	61.7	12.4	61.7	11.5	11.4	2.6	0.5	56.9	66.7
Hong Kong SAR	2007	535	85.2	4.9	85.2	6.3	3.3	0.3	0.0	85.0	85.4
	2011	570	86.2	5.8	86.2	4.3	3.5	0.0	0.2	87.5	85.2
Hungary	2007	572	60.1	18.7	60.1	9.3	8.2	2.5	1.3	61.1	59.1
	2011	741	67.6	14.0	67.6	7.3	8.3	2.1	0.7	68.3	67.0
Iran, Islamic Rep. of	2007	553	35.0	21.1	35.0	24.6	11.1	5.7	2.5	34.5	35.5
	2011	827	41.5	20.7	41.5	22.5	10.5	2.9	2.0	36.7	45.9
Italy	2007	639	63.0	20.5	63.0	6.3	6.8	2.5	0.8	57.7	68.0
	2011	590	64.8	21.7	64.8	5.5	6.0	2.0	0.1	63.4	66.0
Japan	2007	648	88.4	3.7	88.4	1.8	5.4	0.3	0.3	89.2	87.6
	2011	631	87.5	2.8	87.5	3.4	5.6	0.6	0.1	88.3	86.6
Kuwait	2007	533	33.2	27.4	33.2	15.4	17.2	4.9	1.9	35.1	31.0
	2011	583	34.5	29.2	34.5	13.0	13.7	8.6	1.1	38.4	29.6
Lithuania	2007	565	50.5	29.7	50.5	6.6	11.3	1.4	0.4	51.0	50.0
	2011	669	47.2	32.5	47.2	8.8	9.4	1.9	0.3	49.8	44.6
Netherlands	2007	473	58.9	12.3	58.9	6.8	21.2	0.6	0.2	58.3	59.5
	2011	470	51.2	12.3	51.2	9.7	25.7	0.6	0.4	47.6	54.8
New Zealand	2007	703	57.4	15.9	57.4	12.1	12.9	1.6	0.2	57.2	57.4
	2011	807	46.8	19.3	46.8	14.8	17.0	1.7	0.5	46.1	47.3
Norway	2007	594	41.5	22.1	41.5	15.7	16.7	2.2	1.8	35.5	48.8
	2011	442	46.1	16.8	46.1	14.2	18.2	3.2	1.6	40.3	52.2
Russian Federation	2007	632	61.5	23.3	61.5	3.6	9.7	1.0	0.8	64.8	57.9
	2011	644	63.3	24.8	63.3	3.7	7.1	0.4	0.7	62.5	64.0
Singapore	2007	728	89.9	3.1	89.9	3.4	3.6	0.0	0.0	93.2	86.6
	2011	915	89.1	4.7	89.1	2.7	3.2	0.2	0.0	89.5	88.8
Slovak Republic	2007	706	36.5	27.0	36.5	20.1	12.5	3.2	0.7	34.2	38.7
	2011	795	41.5	34.5	41.5	15.7	6.9	0.8	0.5	36.6	46.8
Slovenia	2007	631	52.6	16.0	52.6	12.0	15.2	2.9	1.2	52.0	53.3
	2011	632	58.2	14.7	58.2	8.6	15.7	2.4	0.3	58.7	57.8

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

S07_05 (S031273): Physical Science / Applying
Label: Metal spoon and wooden spoon - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	59.6	10.1	59.6	16.6	11.5	0.7	1.4	58.0	61.0
	2011	676	66.1	11.0	66.1	12.6	8.5	1.4	0.3	61.0	70.8
Tunisia	2007	584	37.9	17.1	37.9	13.1	6.3	18.8	6.8	37.2	38.6
	2011	652	46.7	16.3	46.7	14.7	7.4	8.6	6.3	47.3	46.1
United States	2007	1131	68.1	11.4	68.1	11.5	7.4	1.0	0.6	69.1	67.0
	2011	1812	69.5	12.9	69.5	8.9	7.5	0.9	0.3	68.8	70.4
International Avg. (25)	2007	15778	56.7	17.7	56.7	11.0	10.8	2.7	1.2	55.7	57.6
	2011	17554	59.4	17.6	59.4	9.8	10.5	2.0	0.8	57.6	61.0
Alberta, Canada	2007	572	62.8	13.9	62.8	9.0	11.5	2.0	0.8	61.6	64.0
	2011	518	66.8	13.1	66.8	9.1	8.8	1.2	0.9	64.7	68.4
Ontario, Canada	2007	487	57.4	12.6	57.4	13.3	13.5	1.5	1.6	60.1	54.9
	2011	659	59.8	13.0	59.8	11.0	13.0	1.5	1.7	63.0	56.8
Quebec, Canada	2007	563	39.3	27.6	39.3	11.0	19.4	2.2	0.5	37.4	41.3
	2011	595	50.7	23.6	50.7	9.7	13.4	2.4	0.3	46.9	54.5
Dubai, UAE	2007	455	42.6	26.2	42.6	8.4	17.7	3.9	1.1	41.1	43.9
	2011	877	49.4	23.1	49.4	9.9	14.8	2.2	0.6	50.9	48.0

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

S07_06 (S031299): Physical Science / Knowing
Label: Sunlight made up of colors - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	7.6	34.4	8.7	0.5	38.7	9.5	0.7	51.2	52.4	49.7
	2011	868	1.7	28.2	10.5	0.6	51.4	7.1	0.4	41.0	43.4	38.7
Austria	2007	694	4.1	23.8	5.6	1.7	32.9	31.3	0.5	35.2	39.3	30.9
	2011	667	1.7	22.8	7.9	0.3	36.8	30.2	0.3	32.7	32.6	32.8
Chinese Taipei	2007	591	5.9	19.3	3.5	0.3	48.6	22.4	0.0	29.0	31.3	27.0
	2011	611	4.4	25.3	5.6	1.0	46.7	16.9	0.0	36.3	36.4	36.3
Czech Republic	2007	602	2.2	26.2	4.5	1.0	35.9	29.6	0.7	33.9	34.9	32.9
	2011	651	1.7	31.2	5.6	0.9	37.9	22.6	0.1	39.4	39.9	38.9
Denmark	2007	495	2.7	31.2	11.0	2.8	32.3	17.9	2.0	47.7	46.5	49.0
	2011	557	4.9	32.0	15.2	1.1	30.0	15.6	1.2	53.2	50.7	55.8
England	2007	601	1.3	26.5	11.1	0.6	47.4	12.9	0.3	39.5	40.5	38.5
	2011	479	1.7	27.0	8.8	1.2	51.3	9.4	0.6	38.7	36.1	41.4
Georgia	2007	590	3.4	22.2	3.8	1.0	19.6	44.9	5.2	30.3	34.9	26.3
	2011	692	6.1	19.6	2.6	1.2	31.8	36.3	2.3	29.6	33.6	26.1
Germany	2007	727	6.2	31.4	9.1	1.1	27.3	23.4	1.5	47.9	48.3	47.4
	2011	573	2.5	25.2	14.2	0.2	35.9	21.3	0.7	42.2	42.2	42.1
Hong Kong SAR	2007	535	5.2	45.6	1.1	3.0	40.7	4.4	0.0	54.9	51.4	58.6
	2011	570	2.6	46.7	0.5	0.5	43.5	6.0	0.2	50.3	53.9	47.5
Hungary	2007	572	5.3	28.5	6.6	1.2	31.1	25.5	1.7	41.6	39.8	43.3
	2011	742	1.6	24.2	10.1	0.7	40.6	21.5	1.3	36.6	34.8	38.2
Iran, Islamic Rep. of	2007	553	2.2	26.5	5.2	0.3	37.9	23.5	4.4	34.2	34.8	33.6
	2011	827	1.2	28.7	4.1	1.0	40.1	22.5	2.5	34.9	36.4	33.5
Italy	2007	641	1.8	40.2	4.2	0.1	29.2	22.9	1.6	46.3	47.7	45.0
	2011	590	2.9	31.1	8.1	0.6	30.8	26.1	0.3	42.8	44.9	40.8
Japan	2007	648	2.7	23.9	4.5	1.5	56.8	10.3	0.4	32.5	32.6	32.5
	2011	631	3.3	20.5	3.4	1.9	59.8	10.8	0.4	29.0	27.5	30.3
Kuwait	2007	533	5.3	8.1	2.0	0.0	37.8	44.5	2.4	15.4	18.5	11.8
	2011	590	1.8	13.3	0.1	0.3	47.7	34.9	1.9	15.6	17.8	12.8
Lithuania	2007	565	3.1	17.3	17.7	1.1	26.4	33.8	0.6	39.2	44.6	33.8
	2011	669	0.9	26.0	17.9	0.3	29.6	25.0	0.3	45.1	46.2	44.1
Netherlands	2007	473	2.1	23.2	11.6	1.1	54.6	7.2	0.2	38.0	37.8	38.2
	2011	470	1.9	25.1	13.0	1.0	52.8	5.5	0.6	41.0	42.4	39.7
New Zealand	2007	703	4.5	27.8	6.9	1.1	47.0	12.4	0.4	40.2	41.4	39.3
	2011	807	3.0	26.9	6.9	0.1	56.4	5.8	0.8	37.0	41.8	32.8
Norway	2007	594	1.6	25.1	4.4	2.8	43.9	20.0	2.3	33.9	34.9	32.5
	2011	442	0.7	19.9	10.1	1.1	41.9	24.6	1.7	31.8	35.2	28.2
Russian Federation	2007	632	4.6	24.4	10.5	0.1	38.3	21.4	0.8	39.6	39.3	39.8
	2011	644	4.2	29.4	12.2	1.4	32.7	19.4	0.7	47.2	50.7	44.2
Singapore	2007	728	3.1	57.5	3.1	1.1	33.3	1.9	0.0	64.8	68.3	61.3
	2011	915	3.7	59.5	2.2	2.3	30.0	2.4	0.0	67.6	70.0	65.5
Slovak Republic	2007	706	1.9	26.0	5.1	1.6	36.3	27.8	1.3	34.6	35.8	33.5
	2011	795	3.9	29.5	5.0	0.6	37.2	23.3	0.5	39.0	44.3	33.4
Slovenia	2007	631	2.0	28.7	5.9	0.6	43.7	16.7	2.4	37.2	37.9	36.5
	2011	633	2.1	26.2	2.6	1.6	45.5	21.6	0.3	32.5	30.1	34.7

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

S07_06 (S031299): Physical Science / Knowing
Label: Sunlight made up of colors - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	4.5	32.8	8.6	0.5	34.4	17.5	1.7	46.5	48.4	44.8
	2011	676	0.8	28.4	10.3	2.8	39.1	17.8	0.8	42.3	44.2	40.5
Tunisia	2007	584	4.7	11.4	1.3	0.9	38.2	33.3	10.2	18.3	17.8	18.8
	2011	700	0.5	14.5	3.2	0.4	50.8	23.3	7.3	18.6	22.1	15.3
United States	2007	1131	4.5	28.9	12.5	1.0	46.6	5.8	0.8	46.9	48.1	45.6
	2011	1812	4.8	32.6	12.3	0.9	46.5	2.6	0.4	50.6	55.4	45.6

International Avg. (25)	2007	15780	3.7	27.6	6.7	1.1	38.3	20.8	1.7	39.2	40.3	38.0
	2011	17611	2.6	27.7	7.7	1.0	41.9	18.1	1.0	39.0	40.5	37.6

Alberta, Canada	2007	572	14.1	32.4	8.2	2.7	31.5	10.2	0.8	57.5	60.8	54.2
	2011	518	17.5	32.9	5.4	1.9	35.8	5.3	1.2	57.7	61.7	54.8
Ontario, Canada	2007	487	10.3	31.9	7.5	3.1	35.2	10.3	1.6	52.9	55.7	50.2
	2011	659	9.4	32.7	7.6	0.8	40.6	6.7	2.1	50.6	50.8	50.4
Quebec, Canada	2007	563	2.4	19.6	8.5	1.1	49.8	18.2	0.5	31.6	31.7	31.4
	2011	595	1.1	20.1	11.2	0.4	54.1	12.2	0.8	32.8	32.0	33.7
Dubai, UAE	2007	455	6.1	21.7	6.0	0.8	40.4	23.4	1.5	34.7	43.3	27.2
	2011	877	1.7	22.4	5.6	1.1	48.8	19.8	0.6	30.8	26.7	34.4

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

S07_07 (S031281): Life Science / Knowing
Label: Why birds sit on their eggs - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	95.3	1.4	95.3	1.2	0.5	1.0	0.7	97.4	92.8
	2011	868	92.2	2.7	92.2	2.2	0.8	1.4	0.6	92.9	91.7
Austria	2007	694	93.6	2.1	93.6	0.9	0.5	2.2	0.7	93.6	93.7
	2011	667	95.2	1.3	95.2	0.7	0.5	2.1	0.3	96.5	94.0
Chinese Taipei	2007	591	82.0	13.2	82.0	3.3	0.7	0.9	0.0	81.2	82.6
	2011	611	85.6	11.0	85.6	1.9	0.7	0.8	0.0	85.2	86.0
Czech Republic	2007	602	94.1	2.9	94.1	1.2	0.1	0.8	1.0	93.9	94.3
	2011	651	94.1	3.0	94.1	0.6	0.7	1.3	0.2	92.9	95.3
Denmark	2007	495	92.3	2.0	92.3	2.5	0.7	0.5	2.0	94.9	89.7
	2011	557	93.1	1.9	93.1	0.8	1.0	1.9	1.4	94.8	91.3
England	2007	601	91.6	2.9	91.6	2.4	0.8	2.1	0.3	94.0	89.3
	2011	479	89.2	2.3	89.2	4.7	1.6	1.5	0.6	90.4	87.9
Georgia	2007	590	73.8	7.8	73.8	4.5	5.8	2.8	5.2	74.6	73.1
	2011	692	78.9	9.4	78.9	3.5	4.1	1.3	2.8	82.2	75.8
Germany	2007	727	93.9	1.0	93.9	0.9	0.3	2.4	1.6	95.4	92.2
	2011	573	92.5	1.3	92.5	1.8	0.5	3.1	0.9	89.8	95.3
Hong Kong SAR	2007	535	83.3	7.3	83.3	4.5	4.3	0.6	0.0	83.3	83.3
	2011	570	83.7	6.8	83.7	5.9	3.2	0.1	0.2	85.4	82.4
Hungary	2007	572	92.0	2.1	92.0	1.2	1.6	1.2	1.9	93.2	90.8
	2011	742	89.5	3.3	89.5	1.5	1.5	2.6	1.7	90.3	88.8
Iran, Islamic Rep. of	2007	552	64.4	14.6	64.4	8.4	5.0	2.7	4.9	67.1	61.6
	2011	827	67.3	13.8	67.3	9.3	5.7	1.0	2.9	64.7	69.6
Italy	2007	639	86.8	5.3	86.8	3.3	1.7	1.2	1.8	85.4	88.0
	2011	590	86.6	7.5	86.6	3.0	1.4	1.1	0.3	90.1	83.6
Japan	2007	648	85.9	3.8	85.9	5.4	3.8	0.6	0.6	85.7	86.1
	2011	631	87.1	3.9	87.1	5.5	2.5	0.3	0.6	87.6	86.6
Kuwait	2007	533	54.0	19.5	54.0	12.4	6.3	5.2	2.6	59.5	47.7
	2011	582	39.7	23.7	39.7	19.8	8.0	7.3	1.5	40.2	39.0
Lithuania	2007	565	79.5	5.3	79.5	6.8	2.4	4.9	1.0	78.6	80.5
	2011	669	82.5	6.0	82.5	6.4	2.2	2.5	0.4	80.4	84.6
Netherlands	2007	473	96.0	1.4	96.0	1.3	0.4	0.6	0.2	96.9	95.2
	2011	470	95.7	2.0	95.7	0.6	0.2	0.9	0.6	97.5	93.8
New Zealand	2007	703	92.2	2.1	92.2	2.5	1.0	1.8	0.4	93.3	91.3
	2011	807	86.9	4.3	86.9	3.0	3.0	1.6	1.3	85.5	88.1
Norway	2007	594	89.0	2.3	89.0	2.2	1.2	2.4	3.0	89.5	88.4
	2011	442	91.0	1.8	91.0	1.2	1.6	2.5	1.9	94.9	87.0
Russian Federation	2007	632	88.0	5.4	88.0	2.0	1.9	1.7	0.9	88.1	87.9
	2011	644	89.3	4.5	89.3	3.4	0.9	1.3	0.7	87.0	91.2
Singapore	2007	728	92.8	2.7	92.8	2.2	2.1	0.1	0.0	92.0	93.6
	2011	915	92.9	3.1	92.9	2.3	1.4	0.3	0.0	92.1	93.7
Slovak Republic	2007	706	86.3	3.7	86.3	4.8	1.3	2.3	1.5	85.1	87.6
	2011	795	90.6	4.2	90.6	3.0	1.1	0.5	0.5	89.1	92.3
Slovenia	2007	631	88.6	2.9	88.6	2.4	1.5	1.9	2.8	89.6	87.6
	2011	632	92.5	2.3	92.5	2.3	1.1	1.5	0.3	96.3	89.0

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

S07_07 (S031281): Life Science / Knowing
Label: Why birds sit on their eggs - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	92.7	2.8	92.7	0.7	1.2	1.0	1.7	95.5	90.2
	2011	676	93.2	2.8	93.2	1.2	0.6	1.1	1.0	93.2	93.3
Tunisia	2007	584	39.7	14.6	39.7	12.5	5.0	17.7	10.5	43.5	36.3
	2011	646	46.3	14.9	46.3	14.3	7.4	8.5	8.5	46.5	46.2
United States	2007	1131	89.8	2.5	89.8	3.8	1.1	1.9	0.9	90.6	89.1
	2011	1812	93.6	2.0	93.6	2.1	0.5	1.3	0.5	94.3	92.8
International Avg. (25)	2007	15777	84.7	5.3	84.7	3.7	2.0	2.4	1.8	85.7	83.7
	2011	17548	85.2	5.6	85.2	4.0	2.1	1.9	1.2	85.6	84.8
Alberta, Canada	2007	572	92.9	2.3	92.9	1.5	0.1	2.0	1.1	94.7	91.2
	2011	518	92.7	1.4	92.7	3.0	0.5	1.0	1.4	94.2	91.7
Ontario, Canada	2007	487	90.1	2.4	90.1	2.3	1.7	1.7	1.8	90.3	89.9
	2011	659	90.0	2.0	90.0	2.7	1.1	1.9	2.3	89.1	90.8
Quebec, Canada	2007	563	88.4	4.1	88.4	3.5	0.5	3.0	0.5	88.8	88.0
	2011	595	90.7	3.7	90.7	2.3	0.2	2.2	1.0	90.7	90.6
Dubai, UAE	2007	455	70.3	11.2	70.3	6.7	5.4	4.8	1.5	74.0	67.0
	2011	877	72.5	11.2	72.5	7.3	5.9	2.4	0.7	72.9	72.2

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

S07_08 (S031077): Physical Science / Applying
Label: Object in circuit for bulb to glow - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	71.4	71.4	4.7	17.3	3.8	2.1	0.7	64.1	80.1
	2011	868	73.6	73.6	2.2	18.8	3.3	1.3	0.8	67.9	78.9
Austria	2007	694	86.5	86.5	1.9	6.8	1.6	2.4	0.7	85.1	87.9
	2011	667	89.3	89.3	1.0	5.8	1.7	1.8	0.4	88.3	90.2
Chinese Taipei	2007	591	92.9	92.9	2.1	1.8	2.9	0.2	0.0	92.7	93.0
	2011	611	93.8	93.8	1.4	2.8	1.5	0.5	0.0	91.6	95.8
Czech Republic	2007	602	74.2	74.2	3.5	13.5	4.4	3.4	1.0	69.1	78.9
	2011	651	77.1	77.1	3.0	13.1	4.4	2.2	0.2	73.5	80.6
Denmark	2007	493	67.8	67.8	6.9	18.7	1.7	2.7	2.1	63.5	72.2
	2011	557	75.0	75.0	3.4	15.6	1.5	2.8	1.8	73.1	76.9
England	2007	601	83.7	83.7	3.7	9.7	1.6	1.1	0.3	83.2	84.2
	2011	479	83.7	83.7	2.9	10.6	1.3	0.6	1.0	81.3	86.1
Georgia	2007	590	47.4	47.4	4.5	26.9	6.7	9.1	5.3	47.2	47.5
	2011	692	56.4	56.4	6.0	22.3	8.5	3.7	3.1	52.5	59.9
Germany	2007	727	86.0	86.0	2.0	7.1	1.3	1.6	2.0	84.3	87.9
	2011	573	88.5	88.5	1.5	6.0	1.4	1.8	0.9	85.9	91.2
Hong Kong SAR	2007	535	82.7	82.7	2.5	9.4	4.5	0.9	0.0	78.4	87.2
	2011	570	83.9	83.9	3.9	8.3	3.6	0.2	0.2	79.1	87.6
Hungary	2007	572	70.6	70.6	2.9	13.7	3.9	6.5	2.4	65.5	75.2
	2011	742	73.0	73.0	3.0	12.8	3.8	5.7	1.7	69.5	76.2
Iran, Islamic Rep. of	2007	553	79.1	79.1	2.6	4.6	4.6	3.6	5.5	80.0	78.0
	2011	827	81.8	81.8	2.6	6.8	4.2	1.6	3.0	80.3	83.2
Italy	2007	640	66.7	66.7	1.5	21.5	3.8	4.7	1.8	62.8	70.4
	2011	590	61.7	61.7	3.4	23.4	7.4	3.8	0.3	60.5	62.7
Japan	2007	648	95.3	95.3	2.4	1.2	0.0	0.5	0.6	95.9	94.8
	2011	631	94.0	94.0	2.8	2.2	0.1	0.3	0.6	93.3	94.5
Kuwait	2007	533	32.0	32.0	8.9	47.9	4.7	3.8	2.7	29.9	34.5
	2011	586	34.1	34.1	9.8	41.8	7.3	5.4	1.6	38.0	29.3
Lithuania	2007	565	69.7	69.7	2.7	16.5	7.2	2.9	1.0	63.6	75.8
	2011	669	73.7	73.7	4.4	16.0	4.1	1.4	0.4	66.8	80.6
Netherlands	2007	473	60.5	60.5	4.7	25.9	7.7	1.0	0.2	58.2	62.7
	2011	470	61.6	61.6	3.9	27.0	5.8	1.0	0.6	52.0	71.3
New Zealand	2007	703	78.5	78.5	3.6	12.3	2.9	2.0	0.6	75.8	80.8
	2011	807	73.6	73.6	4.8	15.6	3.9	0.5	1.4	67.8	78.5
Norway	2007	594	57.5	57.5	6.4	22.2	6.9	3.5	3.4	53.9	62.0
	2011	442	66.9	66.9	6.6	15.2	4.2	4.9	2.2	67.1	66.7
Russian Federation	2007	632	72.7	72.7	2.9	14.6	7.5	1.3	0.9	71.4	74.3
	2011	644	71.7	71.7	2.2	19.0	4.4	1.6	1.0	64.2	78.0
Singapore	2007	728	92.7	92.7	1.9	3.2	2.0	0.2	0.0	91.6	93.8
	2011	915	93.7	93.7	2.3	3.1	0.8	0.0	0.0	92.5	94.8
Slovak Republic	2007	706	82.7	82.7	3.2	5.2	3.0	3.8	2.1	78.8	86.6
	2011	795	87.3	87.3	3.0	5.1	2.9	1.0	0.6	87.2	87.4
Slovenia	2007	631	75.2	75.2	5.7	12.1	2.9	1.2	2.8	70.3	79.9
	2011	632	76.4	76.4	6.5	12.4	2.5	1.5	0.7	68.9	83.1

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

S07_08 (S031077): Physical Science / Applying
Label: Object in circuit for bulb to glow - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	70.9	70.9	2.1	20.4	3.2	1.7	1.7	70.8	71.0
	2011	676	79.5	79.5	1.7	13.9	2.6	1.3	1.0	78.7	80.2
Tunisia	2007	584	40.9	40.9	12.0	17.8	8.2	9.9	11.2	41.5	40.4
	2011	678	46.4	46.4	12.1	20.7	6.0	6.2	8.5	44.0	48.8
United States	2007	1131	78.8	78.8	1.6	12.8	3.0	2.7	1.1	77.0	80.6
	2011	1812	84.0	84.0	2.1	9.9	2.4	1.0	0.6	79.7	88.5
International Avg. (25)	2007	15777	72.7	72.7	3.9	14.5	4.0	2.9	2.0	70.2	75.2
	2011	17584	75.2	75.2	3.9	13.9	3.6	2.1	1.3	72.2	78.1
Alberta, Canada	2007	572	74.2	74.2	1.2	18.1	2.5	3.0	1.1	68.6	79.6
	2011	518	77.9	77.9	3.2	13.5	1.9	1.9	1.6	78.6	77.4
Ontario, Canada	2007	487	75.2	75.2	1.5	14.5	4.7	1.9	2.1	74.5	75.9
	2011	659	75.9	75.9	2.0	15.3	2.5	1.4	3.0	77.6	74.2
Quebec, Canada	2007	563	73.3	73.3	1.5	16.3	6.6	1.2	1.0	68.2	78.4
	2011	595	71.2	71.2	2.9	17.4	4.6	2.8	1.0	66.8	75.8
Dubai, UAE	2007	455	63.1	63.1	9.1	14.4	6.9	5.0	1.5	64.1	62.2
	2011	877	69.5	69.5	3.8	15.2	8.8	2.0	0.7	68.5	70.4

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

S07_09 (S031311): Physical Science / Knowing

Label: Force that causes object to fall - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	74.4	3.6	74.4	10.0	9.2	1.8	0.9	74.3	74.5
	2011	868	79.4	1.6	79.4	6.4	9.5	2.4	0.8	77.6	81.1
Austria	2007	694	61.0	8.2	61.0	10.3	16.0	3.6	0.9	53.2	69.4
	2011	667	62.4	7.5	62.4	10.7	15.7	3.3	0.4	54.5	68.9
Chinese Taipei	2007	591	78.8	6.4	78.8	3.8	11.0	0.0	0.0	74.2	82.8
	2011	611	77.6	5.6	77.6	6.4	10.2	0.2	0.0	70.8	83.6
Czech Republic	2007	602	44.9	27.1	44.9	9.3	14.1	2.8	1.7	37.0	52.0
	2011	651	51.5	25.9	51.5	9.0	10.2	2.8	0.6	41.0	61.8
Denmark	2007	495	73.3	4.8	73.3	6.3	11.3	2.2	2.1	66.3	80.4
	2011	557	77.5	5.4	77.5	7.6	5.4	2.2	1.8	75.0	80.1
England	2007	601	81.2	2.4	81.2	8.3	6.7	1.0	0.4	80.3	82.0
	2011	479	79.9	1.3	79.9	7.8	9.5	0.6	1.0	78.6	81.3
Georgia	2007	590	32.8	12.7	32.8	11.0	33.9	2.8	6.8	25.6	39.1
	2011	692	60.4	7.8	60.4	6.0	21.3	1.1	3.5	63.7	57.4
Germany	2007	727	59.2	9.0	59.2	9.6	16.7	3.3	2.2	51.0	68.0
	2011	573	64.7	11.3	64.7	8.6	12.3	2.3	0.9	53.6	76.4
Hong Kong SAR	2007	535	78.5	3.8	78.5	5.8	11.3	0.6	0.0	72.6	84.7
	2011	570	80.2	3.6	80.2	6.1	9.8	0.2	0.2	70.7	87.6
Hungary	2007	572	57.4	9.6	57.4	7.5	20.5	2.0	3.0	50.3	64.0
	2011	742	61.6	11.7	61.6	6.9	14.6	2.7	2.5	54.5	68.0
Iran, Islamic Rep. of	2007	553	51.7	21.3	51.7	5.8	13.3	1.2	6.7	48.2	55.2
	2011	827	56.1	19.5	56.1	6.2	13.8	0.9	3.5	53.5	58.5
Italy	2007	638	60.0	4.9	60.0	6.2	23.3	3.0	2.6	50.3	69.1
	2011	590	60.5	6.7	60.5	5.0	24.2	3.2	0.5	54.0	66.2
Japan	2007	648	64.3	15.3	64.3	13.0	6.1	0.8	0.6	61.6	67.3
	2011	631	69.5	7.6	69.5	16.3	5.4	0.4	0.8	65.7	73.0
Kuwait	2007	533	49.8	16.6	49.8	10.5	14.9	5.2	3.1	52.1	47.1
	2011	587	57.7	14.6	57.7	11.3	9.7	4.7	2.0	65.9	47.6
Lithuania	2007	564	26.8	34.4	26.8	12.0	23.0	2.0	1.7	25.6	28.1
	2011	669	31.1	31.0	31.1	10.0	25.6	1.7	0.6	30.9	31.3
Netherlands	2007	473	66.1	8.0	66.1	11.0	12.6	2.2	0.2	62.5	69.5
	2011	470	73.2	5.0	73.2	11.1	8.2	1.7	0.8	69.5	76.9
New Zealand	2007	703	67.5	5.2	67.5	11.6	12.5	2.5	0.8	64.0	70.4
	2011	807	66.3	4.9	66.3	11.0	13.9	2.3	1.4	65.4	67.2
Norway	2007	594	69.8	10.0	69.8	6.3	8.4	1.5	4.1	68.2	71.7
	2011	442	65.0	10.8	65.0	6.5	11.8	3.7	2.3	62.7	67.4
Russian Federation	2007	632	52.6	10.1	52.6	9.1	26.0	1.0	1.1	50.0	55.3
	2011	644	61.4	7.1	61.4	10.1	18.3	1.7	1.3	58.0	64.4
Singapore	2007	728	69.7	8.3	69.7	9.9	11.8	0.3	0.0	65.6	73.7
	2011	915	68.3	11.7	68.3	10.2	9.3	0.5	0.0	62.5	73.8
Slovak Republic	2007	706	79.8	6.5	79.8	3.1	7.0	0.8	2.8	79.6	80.0
	2011	795	82.7	7.0	82.7	2.6	6.2	0.8	0.6	80.3	85.3
Slovenia	2007	631	54.8	15.6	54.8	8.8	15.8	1.7	3.2	52.3	57.2
	2011	631	56.3	17.0	56.3	9.8	14.1	2.1	0.7	54.6	57.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S07_09 (S031311): Physical Science / Knowing
Label: Force that causes object to fall - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	70.2	7.9	70.2	9.2	8.9	2.0	1.8	61.6	77.5
	2011	676	70.5	5.9	70.5	12.4	7.8	2.2	1.2	69.1	71.8
Tunisia	2007	584	33.6	9.6	33.6	16.7	16.7	11.2	12.3	30.1	36.7
	2011	668	33.7	11.0	33.7	17.8	20.2	7.7	9.6	31.5	35.8
United States	2007	1131	77.4	4.1	77.4	7.0	6.7	3.6	1.1	76.9	77.9
	2011	1812	81.1	3.0	81.1	6.3	7.1	1.7	0.7	75.7	86.8
International Avg. (25)	2007	15776	61.4	10.6	61.4	8.9	14.3	2.4	2.4	57.3	65.4
	2011	17574	65.2	9.8	65.2	8.9	12.6	2.1	1.5	61.6	68.4
Alberta, Canada	2007	572	74.7	3.3	74.7	7.5	9.8	3.7	1.1	70.7	78.5
	2011	518	79.8	4.3	79.8	5.1	6.9	2.2	1.7	80.2	79.5
Ontario, Canada	2007	487	83.0	2.0	83.0	3.3	6.2	3.1	2.4	79.2	86.5
	2011	659	80.7	3.5	80.7	3.9	6.9	1.8	3.1	77.3	83.9
Quebec, Canada	2007	563	55.9	5.8	55.9	11.0	24.4	1.8	1.1	48.9	62.9
	2011	595	62.7	4.8	62.7	9.7	18.5	3.0	1.2	53.9	71.8
Dubai, UAE	2007	455	53.8	15.1	53.8	7.2	17.0	5.0	1.8	48.3	58.6
	2011	877	60.0	10.4	60.0	10.8	15.6	2.4	0.8	54.3	65.0

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

S07_10A (S031088A): Earth Science / Knowing
Label: Two ways to use air - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	80.9	0.0	1.7	2.6	0.6	5.6	0.9	2.7	4.0	1.1	85.8	87.8	83.3
	2011	868	78.8	0.0	0.9	3.0	0.0	8.9	1.3	4.9	1.2	0.8	82.9	83.3	82.5
Austria	2007	694	65.8	0.1	0.0	0.7	0.0	23.2	0.6	4.2	4.3	1.0	66.7	69.0	64.2
	2011	667	72.8	0.4	0.0	3.1	0.0	18.9	0.3	0.9	3.2	0.4	76.3	77.5	75.3
Chinese Taipei	2007	591	67.1	0.8	5.0	5.7	0.0	3.5	0.6	10.8	6.5	0.0	78.6	79.6	77.8
	2011	611	72.8	0.2	4.9	2.4	0.0	1.9	0.3	10.0	7.5	0.0	80.3	80.8	79.9
Czech Republic	2007	602	72.5	0.2	0.4	2.4	0.0	6.3	0.5	7.2	8.6	1.9	75.5	74.9	76.0
	2011	651	71.0	0.3	0.7	5.2	0.0	6.1	0.5	7.3	7.7	1.2	77.3	74.1	80.3
Denmark	2007	495	71.8	0.7	0.0	2.7	0.1	7.6	0.0	10.6	4.3	2.2	75.3	79.1	71.4
	2011	557	72.3	0.6	0.6	3.4	0.2	6.0	0.9	11.8	2.3	1.8	77.1	76.6	77.6
England	2007	601	75.9	0.0	0.8	3.8	0.0	9.3	0.7	6.6	2.4	0.4	80.5	83.0	78.1
	2011	479	77.4	0.1	0.8	2.7	0.0	8.4	0.4	6.5	2.6	1.1	81.0	80.8	81.3
Georgia	2007	590	52.4	0.9	0.4	0.2	0.3	10.0	0.0	14.1	14.8	6.8	54.2	53.6	54.8
	2011	692	53.7	0.0	0.0	0.7	0.0	22.9	0.3	9.0	9.8	3.6	54.4	55.9	53.2
Germany	2007	727	67.0	0.3	0.1	2.9	0.1	18.9	0.6	4.8	3.0	2.4	70.3	73.2	67.2
	2011	573	71.2	0.0	0.2	2.0	0.2	18.4	0.9	3.0	3.0	1.0	73.6	72.5	74.8
Hong Kong SAR	2007	535	62.3	1.8	2.7	1.3	0.2	16.4	1.4	11.7	1.9	0.3	68.3	69.6	67.0
	2011	570	73.6	0.3	1.1	1.2	0.0	8.5	1.0	10.4	3.8	0.2	76.1	78.8	74.0
Hungary	2007	572	50.7	0.2	1.5	6.2	0.6	20.1	1.0	10.3	6.3	3.2	59.1	61.5	56.8
	2011	741	56.3	0.2	2.0	4.5	0.5	17.2	0.5	11.0	5.2	2.7	63.4	61.7	64.9
Iran, Islamic Rep. of	2007	553	46.1	0.7	0.5	1.9	0.0	10.5	4.7	18.7	9.7	7.2	49.2	53.6	44.7
	2011	827	51.1	0.4	0.1	2.2	1.8	4.9	2.8	22.5	10.7	3.7	55.5	55.3	55.7
Italy	2007	641	71.2	0.0	1.1	1.4	0.3	7.5	0.3	9.2	6.1	3.0	73.9	72.8	75.0
	2011	590	76.2	0.1	0.5	3.3	0.0	11.8	0.8	3.5	3.2	0.7	80.0	81.2	79.0
Japan	2007	648	52.0	0.4	2.1	4.5	1.3	18.7	0.1	15.5	4.8	0.6	60.3	57.4	63.4
	2011	631	58.6	0.7	2.8	7.2	0.0	10.3	0.0	14.2	5.5	0.8	69.2	68.5	69.8
Kuwait	2007	533	35.2	0.3	4.1	2.2	4.1	0.8	0.1	20.5	28.8	4.0	45.9	55.0	35.5
	2011	590	40.0	0.0	2.4	1.9	0.6	1.9	1.5	26.4	21.9	3.3	44.9	50.7	38.0
Lithuania	2007	565	68.8	0.1	0.8	4.0	0.6	5.8	0.6	9.9	7.3	2.2	74.2	76.8	71.6
	2011	669	69.4	0.3	1.3	5.8	1.2	5.2	0.8	9.5	6.0	0.6	78.0	77.4	78.5
Netherlands	2007	473	66.5	0.0	1.0	3.9	0.0	14.6	0.4	12.2	1.1	0.2	71.4	71.1	71.8
	2011	470	65.8	0.2	1.9	6.2	0.0	10.4	0.6	12.4	1.7	0.8	74.0	76.2	71.8
New Zealand	2007	703	74.4	0.0	1.4	5.5	0.0	8.2	0.4	5.4	4.0	0.8	81.2	85.6	77.7
	2011	807	73.6	0.3	1.1	6.7	0.0	8.5	0.4	5.2	2.1	2.1	81.7	84.0	79.8
Norway	2007	594	63.3	0.3	1.1	5.4	0.0	8.2	0.0	11.4	5.8	4.4	70.1	71.2	68.8
	2011	442	66.7	0.2	0.9	2.6	0.0	14.1	1.3	7.2	4.8	2.3	70.4	75.5	65.0
Russian Federation	2007	632	84.4	0.3	0.3	0.7	0.0	2.3	0.1	3.6	7.0	1.4	85.7	87.3	83.9
	2011	644	77.8	0.0	2.5	2.1	0.2	6.3	0.6	4.9	3.9	1.6	82.7	78.8	86.0
Singapore	2007	728	71.5	2.8	2.5	2.4	3.2	8.7	0.4	7.8	0.7	0.0	82.5	83.1	81.8
	2011	915	75.6	0.4	3.6	1.5	0.1	10.3	1.9	5.8	0.8	0.0	81.2	81.9	80.5
Slovak Republic	2007	706	72.3	0.1	0.8	1.5	0.1	5.2	0.2	6.4	10.5	2.8	74.9	74.3	75.5
	2011	795	73.4	0.8	0.1	3.4	1.5	5.8	1.0	6.4	6.8	0.9	79.1	82.0	76.0
Slovenia	2007	631	70.5	0.0	0.4	0.9	0.0	13.7	0.1	7.1	3.7	3.5	71.8	72.5	71.1
	2011	633	72.4	0.1	0.2	1.6	0.8	8.8	0.0	8.9	6.4	0.7	75.2	79.7	71.1

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

S07_10A (S031088A): Earth Science / Knowing
Label: Two ways to use air - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	74.0	0.0	1.4	3.0	0.0	6.7	0.4	9.1	3.5	2.0	78.3	77.5	79.0
	2011	676	71.2	0.5	1.6	7.0	0.6	6.5	1.1	5.8	4.2	1.3	81.0	80.2	81.7
Tunisia	2007	584	18.7	0.5	1.4	8.2	5.1	1.0	0.3	35.2	16.3	13.4	33.9	34.9	33.0
	2011	700	18.2	1.1	2.1	13.3	6.4	1.6	1.9	33.2	11.6	10.5	41.2	45.2	37.4
United States	2007	1131	75.5	0.0	0.3	2.2	0.0	11.6	1.5	5.0	2.9	1.1	78.0	78.7	77.2
	2011	1812	82.4	0.0	0.6	4.0	0.0	7.9	0.9	2.3	1.0	0.9	87.0	87.9	86.0
International Avg. (25)	2007	15780	64.4	0.4	1.3	3.0	0.7	9.8	0.6	10.4	6.7	2.6	69.8	71.3	68.3
	2011	17610	66.9	0.3	1.3	3.9	0.6	9.3	0.9	9.7	5.5	1.7	72.9	73.9	72.0
Alberta, Canada	2007	572	79.0	0.0	2.0	3.2	0.5	4.7	1.2	5.0	3.4	1.1	84.7	84.8	84.6
	2011	518	78.8	0.5	1.6	2.0	0.9	8.9	0.7	3.1	1.8	1.7	83.8	88.0	80.6
Ontario, Canada	2007	487	80.3	0.0	0.3	3.1	0.7	4.0	0.6	5.8	1.8	3.4	84.4	85.7	83.2
	2011	659	78.1	0.8	0.2	2.3	0.2	8.4	1.0	3.7	2.2	3.1	81.6	82.2	81.0
Quebec, Canada	2007	563	72.7	0.0	1.1	1.2	0.8	10.3	0.4	7.6	5.0	1.1	75.7	76.5	74.9
	2011	595	74.5	0.3	0.5	1.2	0.1	7.7	0.6	10.6	3.4	1.2	76.5	75.4	77.7
Dubai, UAE	2007	455	55.5	0.7	0.8	4.0	0.0	7.0	3.2	13.4	13.1	2.2	61.0	68.1	54.8
	2011	877	56.9	0.4	1.7	5.6	0.0	7.5	1.4	17.3	8.2	1.0	64.6	66.7	62.8

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

S07_10B (S031088B): Earth Science / Knowing
Label: Two ways to use air - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	6.9	0.7	3.7	15.3	2.0	27.6	8.8	26.1	7.8	1.1	28.6	27.2	30.1
	2011	868	6.7	0.4	3.3	8.2	0.7	27.5	8.8	38.2	5.4	0.8	19.3	18.9	19.6
Austria	2007	694	11.1	1.5	2.7	4.2	0.4	30.1	10.8	22.8	15.5	1.0	19.8	17.7	22.1
	2011	667	7.0	1.1	1.0	12.7	0.1	33.0	8.1	21.2	15.3	0.4	21.9	21.2	22.6
Chinese Taipei	2007	591	5.9	3.5	13.2	11.9	0.7	10.7	6.3	28.0	19.8	0.0	35.2	31.5	38.5
	2011	611	6.1	2.3	10.6	12.8	0.5	8.3	1.5	42.3	15.6	0.0	32.3	33.1	31.7
Czech Republic	2007	602	3.9	4.3	1.8	7.2	0.3	12.6	7.8	26.6	33.6	1.9	17.5	9.9	24.5
	2011	651	4.1	2.4	1.8	11.0	0.5	17.0	7.7	26.2	28.1	1.2	19.8	15.9	23.7
Denmark	2007	495	5.1	1.2	3.4	12.5	2.5	13.9	6.2	37.0	15.9	2.2	24.8	20.2	29.5
	2011	557	10.7	1.4	3.5	8.5	1.6	10.7	7.1	42.9	11.9	1.8	25.7	24.6	26.7
England	2007	601	5.6	0.0	3.1	10.3	0.0	26.9	11.0	32.4	10.4	0.4	18.9	16.7	21.1
	2011	479	4.5	0.1	3.3	6.6	0.0	30.8	10.5	35.3	7.7	1.1	14.5	14.1	14.9
Georgia	2007	590	7.2	1.7	1.6	2.3	1.6	9.8	1.9	35.7	31.4	6.8	14.5	12.3	16.4
	2011	692	7.6	0.1	0.8	2.5	1.8	29.0	6.4	25.9	22.1	3.6	12.9	10.9	14.7
Germany	2007	727	7.0	1.6	1.5	8.0	0.6	25.7	9.5	28.5	15.2	2.4	18.7	14.7	22.9
	2011	573	6.1	1.1	1.1	9.0	0.2	34.4	17.0	15.8	14.3	1.0	17.4	17.2	17.7
Hong Kong SAR	2007	535	10.2	3.1	9.8	9.6	2.6	17.6	6.7	30.9	9.1	0.3	35.4	35.3	35.6
	2011	570	4.9	3.6	6.4	7.8	1.4	16.8	9.0	37.7	12.3	0.2	24.2	22.5	25.4
Hungary	2007	572	7.9	1.0	4.9	7.0	0.7	11.9	7.8	33.6	22.0	3.2	21.5	20.9	22.0
	2011	742	6.4	0.3	4.8	9.8	0.4	11.9	10.9	36.3	16.4	2.7	21.8	19.9	23.5
Iran, Islamic Rep. of	2007	553	6.6	0.9	1.5	2.8	0.0	13.4	13.0	35.8	18.8	7.2	11.8	11.6	12.0
	2011	827	6.5	0.1	1.0	2.4	1.9	8.0	10.1	48.2	18.0	3.7	11.9	10.4	13.3
Italy	2007	641	6.8	2.4	4.0	6.7	3.1	16.6	4.6	35.0	17.8	3.0	23.0	22.4	23.6
	2011	590	8.0	3.2	4.4	9.9	1.4	29.9	6.5	23.3	12.8	0.7	26.8	24.2	29.2
Japan	2007	648	4.6	2.5	4.2	6.7	2.2	22.8	2.8	39.9	13.7	0.6	20.3	17.3	23.4
	2011	631	5.7	2.5	6.4	14.6	0.0	22.4	1.8	35.6	10.1	0.8	29.3	30.8	27.9
Kuwait	2007	533	6.4	0.6	4.4	3.6	8.6	3.0	1.6	29.2	38.7	4.0	23.6	29.7	16.6
	2011	590	4.8	0.5	1.3	1.9	3.4	4.2	8.3	42.4	29.9	3.3	11.9	12.4	11.4
Lithuania	2007	565	4.5	0.6	5.1	5.0	0.8	16.7	3.2	37.5	24.4	2.2	16.0	13.6	18.4
	2011	669	6.3	1.3	5.3	11.2	3.2	14.2	6.3	33.0	18.6	0.6	27.3	26.6	28.1
Netherlands	2007	473	5.8	0.6	5.9	11.9	1.0	25.7	6.3	39.3	3.3	0.2	25.2	20.0	30.2
	2011	470	9.4	2.1	2.6	16.0	0.2	17.0	7.7	40.0	4.3	0.8	30.3	28.1	32.5
New Zealand	2007	703	7.9	0.6	4.4	10.6	0.6	25.8	7.9	32.2	9.3	0.8	24.1	23.2	24.7
	2011	807	7.2	0.8	3.5	14.3	0.0	28.5	8.2	29.7	5.6	2.1	25.9	25.7	26.1
Norway	2007	594	7.0	1.1	2.0	10.9	0.2	25.0	3.0	30.0	16.4	4.4	21.3	21.8	20.5
	2011	442	9.2	0.5	2.3	9.8	0.5	30.3	4.6	25.9	14.7	2.3	22.3	17.0	28.0
Russian Federation	2007	632	1.6	2.5	7.2	5.6	1.0	16.6	9.1	31.2	23.8	1.4	17.9	14.6	21.6
	2011	644	4.1	3.1	11.9	8.6	1.6	21.1	8.6	24.5	14.9	1.6	29.3	27.0	31.2
Singapore	2007	728	8.8	12.9	4.9	7.8	20.2	16.4	2.3	24.7	2.0	0.0	54.6	57.3	51.9
	2011	915	8.0	3.3	12.1	9.5	1.6	26.5	13.2	22.7	3.1	0.0	34.5	39.0	30.3
Slovak Republic	2007	706	3.9	0.4	4.1	9.3	0.8	9.6	4.1	30.6	34.2	2.8	18.5	13.6	23.5
	2011	795	5.6	1.5	2.8	9.2	3.3	17.7	8.5	29.8	20.8	0.9	22.4	20.8	24.1
Slovenia	2007	631	8.1	1.1	4.0	5.5	1.1	29.4	1.6	31.9	14.0	3.5	19.6	20.6	18.7
	2011	633	6.1	1.6	2.7	7.0	3.4	20.4	2.3	32.2	23.6	0.7	20.8	16.5	24.7

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

S07_10B (S031088B): Earth Science / Knowing
Label: Two ways to use air - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	13 %	19 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	5.2	0.5	4.9	9.5	0.7	20.3	7.1	36.5	13.4	2.0	20.7	21.6	20.0
	2011	676	7.4	0.9	4.5	19.2	0.7	12.5	7.6	33.7	12.2	1.3	32.7	32.3	33.1
Tunisia	2007	584	2.9	0.9	1.4	9.7	2.9	1.4	2.1	44.1	21.2	13.4	17.8	18.5	17.2
	2011	700	4.4	0.6	2.1	10.1	7.9	2.4	3.8	42.6	15.5	10.5	25.2	29.1	21.4
United States	2007	1131	6.0	0.5	3.4	6.7	0.3	36.0	11.7	29.8	4.5	1.1	16.9	16.0	17.9
	2011	1812	6.3	0.6	4.9	15.2	0.1	32.3	14.0	23.7	1.9	0.9	27.2	25.4	29.0
International Avg. (25)	2007	15780	6.3	1.9	4.3	8.0	2.2	18.6	6.3	32.4	17.4	2.6	22.6	21.1	24.1
	2011	17611	6.5	1.4	4.2	9.9	1.5	20.3	7.9	32.4	14.2	1.7	23.5	22.5	24.4
Alberta, Canada	2007	572	5.3	1.3	7.5	12.2	2.8	16.9	12.9	33.5	6.4	1.1	29.1	27.5	30.8
	2011	518	5.5	0.8	4.7	11.8	1.9	19.6	10.8	37.8	5.4	1.7	24.7	18.2	29.5
Ontario, Canada	2007	487	4.8	0.6	5.1	13.6	3.2	18.3	12.3	31.9	6.8	3.4	27.3	19.9	34.4
	2011	659	5.1	0.2	3.5	9.6	1.7	20.5	14.4	36.4	5.5	3.1	20.2	18.8	21.4
Quebec, Canada	2007	563	7.1	1.5	3.2	9.4	1.5	23.0	7.4	34.3	11.5	1.1	22.8	21.3	24.2
	2011	595	5.4	0.9	2.8	5.5	1.3	31.8	4.9	37.1	9.0	1.2	15.9	11.9	20.1
Dubai, UAE	2007	455	6.4	1.9	4.3	5.9	3.4	16.6	7.5	31.0	20.8	2.2	21.9	21.8	22.0
	2011	877	8.3	0.7	4.4	8.9	0.1	11.6	11.0	39.7	14.4	1.0	22.3	21.7	22.9

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

S07_10Z (S031088Z): Earth Science / Knowing
Label: Two ways to use air-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	23.3	67.8	3.8	0.0	4.0	1.1	91.1	23.3	22.1	24.7
	2011	868	13.1	75.9	0.0	8.9	1.2	0.8	89.0	13.1	13.1	13.1
Austria	2007	694	8.7	69.0	17.1	0.0	4.2	1.0	77.8	8.7	7.6	9.9
	2011	667	14.5	69.2	0.0	12.8	3.1	0.4	83.7	14.5	14.2	14.7
Chinese Taipei	2007	591	31.2	51.4	11.0	0.0	6.4	0.0	82.6	31.2	27.1	34.9
	2011	611	27.8	57.2	0.0	7.6	7.5	0.0	84.9	27.8	27.3	28.1
Czech Republic	2007	602	13.8	65.4	10.3	0.0	8.6	1.9	79.2	13.8	7.5	19.5
	2011	651	15.9	65.3	0.0	10.0	7.7	1.2	81.2	15.9	12.1	19.6
Denmark	2007	495	19.1	61.9	12.5	0.0	4.3	2.2	81.0	19.1	16.1	22.1
	2011	557	18.7	65.4	0.0	11.8	2.3	1.8	84.1	18.7	16.6	20.9
England	2007	601	13.7	72.1	11.6	0.0	2.3	0.4	85.8	13.7	11.4	15.9
	2011	479	9.2	77.1	0.0	10.0	2.6	1.1	86.3	9.2	7.2	11.2
Georgia	2007	590	7.5	53.7	17.2	0.0	14.8	6.8	61.2	7.5	4.5	10.1
	2011	692	7.1	53.1	0.0	26.8	9.3	3.6	60.2	7.1	6.8	7.4
Germany	2007	727	10.0	68.9	15.7	0.0	3.0	2.4	79.0	10.0	8.3	11.9
	2011	573	10.4	70.3	0.0	15.3	3.0	1.0	80.7	10.4	10.0	10.7
Hong Kong SAR	2007	535	24.6	54.5	18.7	0.0	1.9	0.3	79.1	24.6	23.9	25.4
	2011	570	19.2	61.8	0.0	14.9	3.8	0.2	81.1	19.2	15.6	22.0
Hungary	2007	572	14.8	51.0	25.0	0.0	6.1	3.2	65.8	14.8	12.8	16.5
	2011	741	15.9	53.4	0.0	22.8	5.2	2.7	69.3	15.9	14.3	17.3
Iran, Islamic Rep. of	2007	553	6.1	48.8	28.2	0.0	9.7	7.2	54.9	6.1	4.6	7.7
	2011	827	6.7	54.1	0.0	24.9	10.6	3.7	60.8	6.7	5.1	8.1
Italy	2007	641	16.8	63.2	11.0	0.0	5.9	3.0	80.1	16.8	15.6	18.0
	2011	590	18.3	70.3	0.0	7.5	3.2	0.7	88.6	18.3	15.2	21.0
Japan	2007	648	14.7	51.1	29.0	0.0	4.6	0.6	65.8	14.7	12.6	17.0
	2011	631	21.9	54.7	0.0	17.3	5.3	0.8	76.6	21.9	22.3	21.5
Kuwait	2007	533	19.6	30.2	18.9	0.0	27.3	4.0	49.8	19.6	25.7	12.8
	2011	590	7.6	41.7	0.0	26.2	21.2	3.3	49.3	7.6	8.1	7.1
Lithuania	2007	565	11.6	67.1	12.1	0.0	7.1	2.2	78.6	11.6	10.3	12.9
	2011	669	21.3	62.6	0.0	9.5	6.0	0.6	84.0	21.3	21.2	21.5
Netherlands	2007	473	17.4	61.8	19.6	0.0	1.1	0.2	79.2	17.4	12.1	22.6
	2011	470	20.3	63.7	0.0	13.4	1.7	0.8	84.0	20.3	21.3	19.3
New Zealand	2007	703	17.8	69.7	7.9	0.0	3.9	0.8	87.5	17.8	16.0	19.2
	2011	807	21.4	64.9	0.0	9.6	2.1	2.1	86.3	21.4	22.5	20.4
Norway	2007	594	14.7	61.9	13.1	0.0	5.8	4.4	76.7	14.7	13.8	15.8
	2011	442	13.7	65.3	0.0	13.9	4.8	2.3	79.0	13.7	12.0	15.5
Russian Federation	2007	632	16.8	70.0	4.9	0.0	6.9	1.4	86.8	16.8	13.8	20.0
	2011	644	25.8	60.3	0.0	8.5	3.8	1.6	86.1	25.8	21.8	29.2
Singapore	2007	728	47.0	43.1	9.2	0.0	0.7	0.0	90.0	47.0	48.9	45.1
	2011	915	26.5	62.8	0.0	9.9	0.8	0.0	89.3	26.5	30.0	23.1
Slovak Republic	2007	706	15.6	62.2	9.1	0.0	10.2	2.8	77.8	15.6	11.7	19.5
	2011	795	18.5	64.6	0.0	9.7	6.4	0.9	83.1	18.5	16.7	20.3
Slovenia	2007	631	11.4	68.6	12.7	0.0	3.7	3.5	80.1	11.4	9.9	12.8
	2011	633	15.5	65.1	0.0	12.4	6.4	0.7	80.5	15.5	13.5	17.2

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

S07_10Z (S031088Z): Earth Science / Knowing
Label: Two ways to use air-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	669	16.7	65.6	12.2	0.0	3.5	2.0	82.3	16.7	17.1	16.4
	2011	676	28.1	57.4	0.0	9.4	3.7	1.3	85.6	28.1	27.9	28.4
Tunisia	2007	584	13.5	24.8	32.3	0.0	16.1	13.4	38.3	13.5	13.9	13.1
	2011	700	20.7	25.1	0.0	32.5	11.3	10.5	45.7	20.7	24.1	17.4
United States	2007	1131	11.6	71.7	12.7	0.0	2.9	1.1	83.3	11.6	10.3	12.9
	2011	1812	21.3	71.6	0.0	5.3	1.0	0.9	92.9	21.3	20.2	22.4

International Avg. (25)	2007	15780	16.7	59.0	15.0	0.0	6.6	2.6	75.7	16.7	15.1	18.3
	2011	17610	17.6	61.3	0.0	14.0	5.4	1.7	78.9	17.6	16.8	18.3

Alberta, Canada	2007	572	26.2	61.5	7.9	0.0	3.4	1.1	87.7	26.2	24.0	28.3
	2011	518	18.9	70.6	0.0	7.0	1.8	1.7	89.5	18.9	13.7	22.9
Ontario, Canada	2007	487	22.7	66.4	5.8	0.0	1.8	3.4	89.1	22.7	16.5	28.6
	2011	659	15.3	71.2	0.0	8.2	2.2	3.1	86.5	15.3	15.0	15.5
Quebec, Canada	2007	563	14.9	68.7	10.4	0.0	5.0	1.1	83.6	14.9	12.5	17.2
	2011	595	9.3	73.9	0.0	12.3	3.4	1.2	83.2	9.3	5.4	13.2
Dubai, UAE	2007	455	15.8	51.2	18.0	0.0	12.7	2.2	67.0	15.8	16.3	15.4
	2011	877	12.7	61.5	0.0	16.6	8.1	1.0	74.2	12.7	11.7	13.7

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

S07_11 (S031389): Earth Science / Knowing

Label: Soil change due to natural causes - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	582	45.2	19.4	13.2	18.2	45.2	1.8	2.2	48.6	41.0
	2011	868	44.1	17.9	14.3	21.8	44.1	0.8	1.0	42.7	45.4
Austria	2007	694	32.2	19.8	17.1	22.4	32.2	5.8	2.6	29.7	34.9
	2011	667	35.5	19.6	16.6	19.6	35.5	6.4	2.3	31.7	38.7
Chinese Taipei	2007	591	46.2	21.1	18.4	13.8	46.2	0.3	0.2	49.3	43.5
	2011	611	47.5	19.9	22.6	8.8	47.5	0.3	0.8	47.4	47.6
Czech Republic	2007	602	40.0	22.2	15.2	12.3	40.0	4.8	5.5	40.1	39.9
	2011	651	40.8	24.6	14.5	13.2	40.8	3.4	3.5	41.8	39.8
Denmark	2007	493	35.0	16.6	17.2	18.0	35.0	7.6	5.4	31.9	38.1
	2011	557	35.5	22.4	20.0	13.2	35.5	5.6	3.4	33.1	37.9
England	2007	601	49.5	16.8	11.9	19.5	49.5	1.3	0.9	47.7	51.2
	2011	479	39.5	21.6	13.8	21.1	39.5	2.5	1.5	38.7	40.3
Georgia	2007	590	33.4	8.7	28.5	13.6	33.4	4.1	11.6	36.7	30.5
	2011	692	34.6	9.6	32.0	13.8	34.6	3.8	6.1	37.0	32.5
Germany	2007	727	30.6	17.7	20.6	19.8	30.6	7.0	4.3	27.6	33.8
	2011	573	26.0	18.2	24.1	23.1	26.0	5.8	2.8	23.6	28.5
Hong Kong SAR	2007	535	46.0	25.6	16.6	10.6	46.0	0.9	0.3	44.5	47.7
	2011	570	43.8	28.6	15.1	11.5	43.8	0.5	0.5	40.3	46.6
Hungary	2007	572	51.2	20.6	12.2	8.6	51.2	3.2	4.2	51.8	50.7
	2011	742	50.9	19.0	11.9	11.7	50.9	2.1	4.5	48.9	52.6
Iran, Islamic Rep. of	2007	553	26.9	29.1	17.3	14.0	26.9	3.1	9.6	29.3	24.4
	2011	827	31.3	26.6	17.7	16.4	31.3	1.2	6.7	32.5	30.2
Italy	2007	636	45.9	17.4	17.1	11.2	45.9	4.1	4.1	44.0	47.7
	2011	590	43.1	14.0	18.8	18.2	43.1	4.4	1.4	43.7	42.6
Japan	2007	648	56.4	10.1	19.2	12.6	56.4	1.0	0.7	57.2	55.5
	2011	631	55.3	14.5	19.2	8.7	55.3	1.3	1.0	54.5	55.9
Kuwait	2007	533	24.3	18.6	25.8	18.1	24.3	4.8	8.4	26.8	21.5
	2011	583	21.6	20.9	29.0	17.9	21.6	4.8	5.9	23.4	19.3
Lithuania	2007	565	43.0	18.7	15.6	12.6	43.0	5.9	4.1	43.6	42.3
	2011	669	44.3	21.1	12.8	16.1	44.3	3.5	2.2	46.1	42.5
Netherlands	2007	473	34.4	22.8	23.4	18.1	34.4	1.0	0.3	32.2	36.4
	2011	470	32.7	26.8	17.1	19.4	32.7	2.7	1.3	35.3	29.9
New Zealand	2007	703	42.6	17.3	14.9	21.5	42.6	2.2	1.6	46.1	39.7
	2011	807	36.4	19.0	17.4	23.3	36.4	0.6	3.3	32.8	39.5
Norway	2007	594	25.4	26.1	16.1	19.6	25.4	5.4	7.4	23.4	27.8
	2011	442	27.6	30.3	11.7	18.4	27.6	7.0	5.0	25.8	29.5
Russian Federation	2007	632	58.6	13.5	13.8	9.0	58.6	2.3	2.9	62.3	54.5
	2011	644	59.9	14.6	11.7	9.5	59.9	2.1	2.3	60.3	59.6
Singapore	2007	728	42.1	17.0	17.4	23.3	42.1	0.2	0.0	39.7	44.5
	2011	915	40.0	17.9	17.0	25.0	40.0	0.0	0.1	38.6	41.4
Slovak Republic	2007	706	51.5	13.4	12.5	11.4	51.5	6.2	5.0	52.4	50.7
	2011	795	51.1	16.7	12.4	16.2	51.1	1.3	2.2	53.1	49.0
Slovenia	2007	631	41.9	11.7	21.6	14.6	41.9	5.0	5.1	43.6	40.3
	2011	632	47.2	11.0	22.4	13.1	47.2	4.7	1.7	47.4	47.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S07_11 (S031389): Earth Science / Knowing

Label: Soil change due to natural causes - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	668	39.0	31.3	12.4	9.6	39.0	4.1	3.5	39.0	39.1
	2011	676	40.8	28.0	14.7	11.2	40.8	2.6	2.8	39.4	42.1
Tunisia	2007	584	17.2	12.3	22.5	19.4	17.2	11.8	16.8	21.9	13.1
	2011	666	19.1	9.7	25.5	25.1	19.1	7.3	13.3	22.5	15.8
United States	2007	1131	49.9	15.9	11.0	18.8	49.9	2.7	1.8	50.3	49.6
	2011	1812	54.1	16.2	10.9	15.8	54.1	1.6	1.3	51.9	56.5
International Avg. (25)	2007	15772	40.3	18.6	17.3	15.6	40.3	3.9	4.3	40.8	39.9
	2011	17569	40.1	19.5	17.7	16.5	40.1	3.1	3.1	39.7	40.4
Alberta, Canada	2007	572	44.5	19.1	12.8	18.6	44.5	3.4	1.5	41.4	47.5
	2011	518	42.8	24.4	12.1	17.8	42.8	0.8	2.0	40.4	44.6
Ontario, Canada	2007	487	48.7	20.0	9.4	15.5	48.7	2.7	3.7	44.8	52.3
	2011	659	43.1	20.8	14.3	15.6	43.1	2.3	4.0	44.0	42.2
Quebec, Canada	2007	563	29.7	18.8	19.5	24.2	29.7	4.8	2.9	33.4	26.1
	2011	595	28.5	17.6	16.2	33.2	28.5	2.7	1.7	29.5	27.5
Dubai, UAE	2007	455	31.9	21.0	18.0	18.9	31.9	5.7	4.4	32.7	31.3
	2011	877	38.8	18.7	18.4	19.3	38.8	3.0	1.8	36.7	40.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S09_01 (S041009): Life Science / Knowing
Label: Organ digestion takes place - Key: D

COUNTRY	YEAR	N	S %	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	0.0	69.2	9.8	10.4	8.7	69.2	1.7	0.3	69.0	69.5
	2011	877	0.0	67.1	12.5	9.3	10.1	67.1	1.1	0.0	69.1	65.1
Austria	2007	688	0.0	95.8	1.8	1.2	0.8	95.8	0.4	0.0	95.3	96.3
	2011	672	0.0	94.9	2.9	1.4	0.1	94.9	0.7	0.0	94.6	95.1
Chinese Taipei	2007	590	0.0	95.8	1.0	1.4	1.2	95.8	0.6	0.0	97.5	94.2
	2011	614	0.0	95.5	1.6	1.7	1.2	95.5	0.0	0.0	96.3	94.9
Czech Republic	2007	611	0.0	92.7	1.4	1.4	3.3	92.7	1.1	0.1	94.3	91.6
	2011	647	0.0	96.6	1.2	0.8	1.0	96.6	0.4	0.0	96.4	96.8
Denmark	2007	505	0.0	75.7	4.3	4.9	12.3	75.7	2.5	0.4	69.8	81.8
	2011	580	0.0	75.5	5.9	4.5	10.4	75.5	2.9	0.9	71.5	79.6
England	2007	623	0.0	73.3	10.1	5.9	9.7	73.3	1.0	0.0	73.5	73.1
	2011	481	0.0	72.3	9.7	7.3	9.8	72.3	0.9	0.0	70.3	74.1
Georgia	2007	570	0.0	95.3	0.8	1.2	2.4	95.3	0.3	0.1	96.3	94.5
	2011	690	0.0	93.8	0.7	2.6	1.4	93.8	0.9	0.5	96.6	91.6
Germany	2007	748	0.0	94.3	3.0	1.3	0.8	94.3	0.6	0.0	93.9	94.6
	2011	569	0.0	95.6	1.9	0.9	1.1	95.6	0.3	0.2	95.2	96.1
Hong Kong SAR	2007	543	0.0	94.7	0.9	1.6	2.3	94.7	0.4	0.0	95.4	94.2
	2011	561	0.0	95.5	1.2	0.8	2.4	95.5	0.1	0.0	96.4	94.6
Hungary	2007	574	0.0	93.3	1.2	3.1	1.8	93.3	0.3	0.3	93.0	93.7
	2011	740	0.0	93.4	2.7	0.7	2.7	93.4	0.3	0.1	92.1	94.6
Iran, Islamic Rep. of	2007	542	0.0	43.5	17.9	22.0	12.0	43.5	4.5	0.2	44.2	42.8
	2011	824	0.0	37.8	29.6	19.7	9.1	37.8	3.0	0.8	36.9	38.6
Italy	2007	635	0.0	97.1	0.8	0.6	1.0	97.1	0.3	0.2	98.6	95.8
	2011	601	0.0	95.0	1.8	0.6	1.1	95.0	1.5	0.0	94.3	95.7
Japan	2007	632	0.0	84.0	6.8	5.0	3.3	84.0	1.0	0.0	83.9	84.0
	2011	634	0.0	87.3	6.2	3.0	3.1	87.3	0.4	0.0	86.9	87.8
Kuwait	2007	534	0.0	63.6	11.5	12.1	9.6	63.6	2.3	0.9	68.9	58.1
	2011	585	0.0	64.5	10.6	11.5	9.3	64.5	3.5	0.5	70.6	57.3
Lithuania	2007	561	48.4	47.2	1.2	1.9	1.3	47.2	0.1	0.0	49.7	44.9
	2011	693	0.0	88.9	5.4	2.2	2.9	88.9	0.4	0.2	89.7	88.2
Netherlands	2007	481	0.0	69.8	11.3	1.2	16.2	69.8	1.5	0.0	71.9	67.8
	2011	467	0.0	75.3	8.1	0.9	14.6	75.3	0.9	0.2	73.9	76.6
New Zealand	2007	711	0.0	55.7	15.0	11.5	16.6	55.7	1.3	0.0	55.6	55.7
	2011	804	0.0	62.8	10.9	10.1	14.7	62.8	0.9	0.5	64.6	61.2
Norway	2007	570	0.0	47.1	15.2	14.8	19.6	47.1	2.9	0.4	44.5	49.9
	2011	445	0.0	56.5	15.0	10.4	15.6	56.5	2.2	0.3	52.1	62.3
Russian Federation	2007	637	0.0	97.3	1.1	0.2	0.8	97.3	0.7	0.0	98.4	96.0
	2011	644	0.0	98.7	0.2	0.3	0.6	98.7	0.2	0.0	99.1	98.4
Singapore	2007	723	0.0	91.3	3.1	2.4	3.1	91.3	0.0	0.0	94.0	88.8
	2011	906	0.0	91.9	4.3	0.9	2.9	91.9	0.0	0.0	90.7	92.9
Slovak Republic	2007	715	0.0	93.5	1.5	1.7	2.6	93.5	0.7	0.0	93.5	93.5
	2011	803	0.0	95.9	1.0	0.9	1.3	95.9	0.3	0.5	95.7	96.1
Slovenia	2007	619	0.0	88.0	4.0	3.3	3.8	88.0	1.0	0.0	89.0	87.0
	2011	637	0.0	93.8	1.8	1.7	2.1	93.8	0.5	0.1	95.8	92.2

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

S09_01 (S041009): Life Science / Knowing
Label: Organ digestion takes place - Key: D

COUNTRY	YEAR	N	S %	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	658	0.0	72.1	3.1	2.0	22.0	72.1	0.8	0.0	73.7	70.4
	2011	686	0.0	76.4	4.4	2.5	15.1	76.4	1.2	0.4	77.6	75.0
Tunisia	2007	591	0.0	60.6	8.5	11.4	11.3	60.6	7.6	0.5	64.3	57.1
	2011	681	0.0	61.6	9.1	7.9	12.4	61.6	6.0	3.1	68.1	56.4
United States	2007	1131	0.0	76.5	8.0	6.0	8.6	76.5	0.9	0.0	76.7	76.4
	2011	1785	0.0	71.3	10.9	5.6	10.9	71.3	1.0	0.2	67.1	75.1

International Avg. (25)	2007	15771	1.9	78.7	5.7	5.1	7.0	78.7	1.4	0.1	79.4	78.1
	2011	17626	0.0	81.5	6.4	4.3	6.2	81.5	1.2	0.3	81.7	81.5

Alberta, Canada	2007	590	0.0	72.7	10.5	6.1	9.3	72.7	1.3	0.0	74.7	71.0
	2011	518	0.0	69.8	9.5	8.5	10.2	69.8	2.0	0.0	71.9	67.7
Ontario, Canada	2007	507	0.0	71.2	10.7	6.9	10.8	71.2	0.1	0.3	69.6	72.9
	2011	639	0.0	68.6	10.7	6.4	12.5	68.6	1.4	0.5	64.7	72.5
Quebec, Canada	2007	557	0.0	80.3	6.2	4.3	7.6	80.3	1.5	0.0	83.6	76.4
	2011	615	0.0	83.5	4.4	4.8	6.6	83.5	0.8	0.0	84.8	82.2
Dubai, UAE	2007	433	0.0	67.4	9.0	13.9	8.6	67.4	1.1	0.0	67.0	67.6
	2011	870	0.0	66.9	9.6	12.3	9.3	66.9	1.7	0.1	63.6	69.6

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

S09_02 (S041223): Life Science / Knowing
Label: Function of part X of a plant - Key: C

COUNTRY	YEAR	N	S %	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	0.0	63.0	13.0	4.6	63.0	18.0	1.1	0.3	60.4	65.5
	2011	877	0.0	59.5	11.7	6.0	59.5	20.0	2.5	0.2	60.1	58.8
Austria	2007	688	0.0	64.9	11.7	3.7	64.9	15.2	4.5	0.0	63.8	66.1
	2011	672	0.0	65.8	12.2	5.5	65.8	13.0	3.5	0.0	65.9	65.7
Chinese Taipei	2007	590	0.0	72.8	10.2	8.2	72.8	7.9	0.9	0.0	71.9	73.6
	2011	614	0.0	71.5	11.4	7.3	71.5	9.8	0.0	0.0	71.4	71.5
Czech Republic	2007	611	0.0	57.6	11.9	8.3	57.6	16.0	6.1	0.1	58.4	57.0
	2011	647	0.0	69.2	17.0	5.7	69.2	6.4	1.8	0.0	67.5	70.8
Denmark	2007	505	0.0	76.1	6.2	4.4	76.1	10.8	2.2	0.4	75.2	77.1
	2011	580	0.0	69.1	9.8	4.0	69.1	12.9	3.3	0.9	68.0	70.3
England	2007	623	0.0	66.6	10.3	11.6	66.6	10.3	1.1	0.0	66.2	67.0
	2011	481	0.0	57.4	14.6	12.8	57.4	14.2	0.8	0.2	57.3	57.5
Georgia	2007	570	0.0	53.3	6.4	5.4	53.3	30.0	4.8	0.1	60.5	48.1
	2011	690	0.0	57.2	8.8	8.6	57.2	22.3	2.6	0.5	60.1	54.8
Germany	2007	748	0.0	71.0	7.9	4.0	71.0	13.1	4.0	0.0	69.5	72.2
	2011	569	0.0	67.7	10.9	6.0	67.7	12.4	2.8	0.2	66.0	69.3
Hong Kong SAR	2007	543	0.0	57.8	17.0	11.1	57.8	13.4	0.7	0.0	57.0	58.5
	2011	561	0.0	57.7	20.0	8.8	57.7	13.2	0.3	0.0	57.2	58.1
Hungary	2007	574	0.0	75.1	7.2	8.2	75.1	7.3	1.9	0.3	78.4	71.6
	2011	740	0.0	74.2	11.4	8.4	74.2	4.7	1.2	0.1	72.8	75.5
Iran, Islamic Rep. of	2007	542	0.0	34.4	28.9	15.6	34.4	17.7	3.2	0.2	38.0	30.9
	2011	824	0.0	39.0	29.9	12.4	39.0	15.8	2.0	0.8	41.4	36.6
Italy	2007	635	0.0	62.0	14.3	7.7	62.0	13.6	2.2	0.2	59.3	64.3
	2011	601	0.0	58.2	18.0	6.4	58.2	15.9	1.5	0.0	61.4	55.0
Japan	2007	632	0.0	71.6	17.5	5.1	71.6	5.7	0.2	0.0	73.7	69.5
	2011	634	0.0	74.5	16.2	5.0	74.5	4.1	0.3	0.0	75.3	73.6
Kuwait	2007	534	0.0	32.0	22.4	15.1	32.0	23.0	6.4	1.1	29.6	34.4
	2011	584	0.0	35.8	19.5	17.5	35.8	21.7	5.0	0.5	37.8	33.3
Lithuania	2007	561	48.4	34.9	6.7	3.2	34.9	5.1	1.7	0.0	41.5	29.1
	2011	693	0.0	57.6	17.3	12.0	57.6	10.8	2.2	0.2	57.0	58.1
Netherlands	2007	481	0.0	66.9	13.0	8.3	66.9	9.8	2.0	0.0	69.5	64.4
	2011	467	0.0	70.2	9.1	5.1	70.2	14.3	1.1	0.2	68.2	72.1
New Zealand	2007	711	0.0	59.1	12.4	6.8	59.1	19.4	2.3	0.0	60.5	57.7
	2011	804	0.0	51.6	13.2	6.6	51.6	26.4	1.6	0.6	53.5	49.8
Norway	2007	570	0.0	69.5	6.8	7.0	69.5	13.7	2.5	0.6	66.5	72.6
	2011	445	0.0	75.1	6.8	4.9	75.1	11.1	1.7	0.3	78.5	70.5
Russian Federation	2007	638	0.0	76.0	7.3	6.0	76.0	8.5	2.2	0.0	79.5	72.0
	2011	644	0.0	76.7	9.3	7.2	76.7	6.1	0.7	0.0	75.9	77.5
Singapore	2007	723	0.0	74.2	15.5	5.8	74.2	4.5	0.0	0.0	74.4	73.9
	2011	906	0.0	77.9	15.3	2.5	77.9	4.2	0.1	0.0	79.6	76.3
Slovak Republic	2007	715	0.0	62.7	19.5	6.2	62.7	8.3	3.2	0.0	63.1	62.3
	2011	803	0.0	63.7	16.5	9.1	63.7	9.0	1.2	0.5	62.5	64.8
Slovenia	2007	619	0.0	67.3	13.7	8.4	67.3	8.0	2.6	0.0	69.2	65.6
	2011	637	0.0	68.6	14.8	6.3	68.6	8.4	1.5	0.4	66.7	70.2

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

S09_02 (S041223): Life Science / Knowing
Label: Function of part X of a plant - Key: C

COUNTRY	YEAR	N	S %	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	0.0	60.1	9.8	10.4	60.1	18.1	1.6	0.0	59.8	60.3
	2011	686	0.0	57.8	12.4	7.4	57.8	20.3	1.7	0.4	59.0	56.4
Tunisia	2007	591	0.0	42.7	13.8	11.8	42.7	17.9	13.3	0.5	47.1	38.4
	2011	676	0.0	43.0	15.9	10.9	43.0	18.7	8.0	3.6	42.0	43.7
United States	2007	1131	0.0	66.0	13.1	9.1	66.0	11.2	0.5	0.0	67.1	65.0
	2011	1785	0.0	63.2	15.9	8.2	63.2	11.6	0.9	0.2	59.9	66.1

International Avg. (25)	2007	15773	1.9	61.5	12.7	7.8	61.5	13.1	2.9	0.1	62.4	60.7
	2011	17620	0.0	62.5	14.3	7.8	62.5	13.1	1.9	0.4	62.6	62.3

Alberta, Canada	2007	590	0.0	71.1	14.1	3.8	71.1	10.1	0.8	0.1	70.9	71.2
	2011	518	0.0	68.6	11.7	6.1	68.6	11.4	1.8	0.3	66.8	70.4
Ontario, Canada	2007	507	0.0	68.7	12.2	6.9	68.7	11.1	0.8	0.3	68.3	69.1
	2011	639	0.0	59.8	16.9	8.0	59.8	13.2	1.3	0.7	59.0	60.7
Quebec, Canada	2007	557	0.0	58.4	14.1	7.7	58.4	17.8	1.9	0.0	54.4	63.0
	2011	615	0.0	52.8	17.7	4.8	52.8	23.3	1.3	0.0	59.7	46.6
Dubai, UAE	2007	433	0.0	56.4	16.7	10.0	56.4	15.4	1.5	0.0	60.4	52.7
	2011	870	0.0	54.1	19.4	10.6	54.1	14.1	1.7	0.1	51.4	56.3

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

S09_03 (S041026): Life Science / Knowing

Label: Body covering protects a reptile - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	577	77.9	2.5	10.5	7.8	77.9	1.0	0.3	74.7	81.0
	2011	877	74.9	2.4	14.9	6.4	74.9	1.1	0.3	77.1	72.9
Austria	2007	688	56.1	3.6	21.0	16.6	56.1	2.7	0.0	53.1	59.2
	2011	672	55.3	2.0	24.3	15.7	55.3	2.7	0.0	51.9	58.8
Chinese Taipei	2007	590	31.2	3.8	29.9	34.1	31.2	1.0	0.0	28.2	34.0
	2011	614	29.1	4.0	33.4	33.2	29.1	0.4	0.0	26.8	31.0
Czech Republic	2007	611	36.3	0.9	48.2	13.3	36.3	1.1	0.1	32.5	38.9
	2011	647	47.3	1.0	46.7	4.7	47.3	0.3	0.0	41.0	53.3
Denmark	2007	504	68.4	3.5	13.0	14.1	68.4	0.7	0.4	66.1	70.8
	2011	580	66.5	4.0	14.4	11.0	66.5	3.2	0.9	67.7	65.1
England	2007	623	77.0	2.5	11.8	7.7	77.0	1.0	0.0	76.1	77.9
	2011	481	72.4	2.1	17.1	7.2	72.4	1.0	0.2	70.9	73.7
Georgia	2007	571	37.3	2.7	44.6	14.6	37.3	0.5	0.1	37.2	37.5
	2011	689	38.6	3.0	37.9	18.8	38.6	1.0	0.7	42.4	35.4
Germany	2007	748	61.1	2.8	17.2	16.6	61.1	2.2	0.0	54.1	67.2
	2011	569	58.7	1.5	22.2	15.7	58.7	1.5	0.5	55.4	61.8
Hong Kong SAR	2007	543	30.8	7.7	35.6	25.3	30.8	0.6	0.0	25.3	35.5
	2011	561	36.7	7.9	28.8	26.1	36.7	0.5	0.0	31.3	41.6
Hungary	2007	574	60.2	5.2	26.6	5.0	60.2	2.7	0.3	60.3	60.0
	2011	740	59.5	7.3	27.8	3.7	59.5	1.5	0.2	61.6	57.7
Iran, Islamic Rep. of	2007	542	39.1	11.8	40.8	6.4	39.1	1.7	0.2	38.5	39.8
	2011	824	35.6	10.5	41.3	10.0	35.6	1.8	0.8	30.9	40.1
Italy	2007	632	59.6	9.1	24.5	5.4	59.6	1.2	0.2	54.6	64.1
	2011	601	52.2	8.3	29.2	9.4	52.2	0.9	0.0	45.7	59.0
Japan	2007	632	18.8	25.4	42.8	12.3	18.8	0.8	0.0	17.9	19.7
	2011	634	21.6	21.9	39.2	16.6	21.6	0.8	0.0	18.4	24.8
Kuwait	2007	534	66.1	5.5	17.8	7.0	66.1	2.4	1.2	74.3	57.8
	2011	587	24.3	15.4	41.1	13.8	24.3	4.8	0.5	26.1	22.2
Lithuania	2007	561	32.3	2.0	54.3	8.9	32.3	2.4	0.0	30.7	33.6
	2011	693	37.3	2.4	51.1	8.5	37.3	0.5	0.2	32.9	41.1
Netherlands	2007	481	65.4	3.1	24.4	4.6	65.4	2.5	0.0	64.0	66.8
	2011	467	64.0	3.4	28.1	3.3	64.0	0.9	0.2	60.0	67.9
New Zealand	2007	711	69.3	4.9	16.1	7.6	69.3	2.2	0.0	69.6	69.1
	2011	804	64.6	3.4	20.1	10.1	64.6	1.0	0.7	59.9	68.9
Norway	2007	570	59.0	7.9	16.4	14.1	59.0	2.0	0.6	56.2	62.1
	2011	445	53.6	11.1	21.1	11.2	53.6	2.6	0.3	50.8	57.3
Russian Federation	2007	638	44.0	1.5	32.3	20.8	44.0	1.4	0.0	45.0	42.8
	2011	644	59.4	2.1	29.3	7.5	59.4	1.6	0.0	57.9	61.0
Singapore	2007	723	76.4	2.1	15.2	6.0	76.4	0.2	0.0	76.1	76.7
	2011	906	76.0	3.9	15.7	4.3	76.0	0.1	0.0	75.7	76.3
Slovak Republic	2007	715	39.4	5.5	52.8	1.2	39.4	1.2	0.0	37.7	41.1
	2011	803	41.6	6.3	48.7	2.3	41.6	0.6	0.5	34.5	48.4
Slovenia	2007	619	50.8	11.9	35.6	0.5	50.8	1.2	0.0	50.4	51.2
	2011	636	46.6	12.9	38.5	0.7	46.6	0.9	0.4	45.3	47.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S09_03 (S041026): Life Science / Knowing

Label: Body covering protects a reptile - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	657	35.4	3.5	37.2	22.6	35.4	1.3	0.0	33.6	37.4
	2011	686	37.2	3.8	40.0	17.0	37.2	1.6	0.4	38.1	36.2
Tunisia	2007	591	21.3	6.6	41.5	19.5	21.3	10.6	0.5	18.3	24.2
	2011	680	21.5	5.7	47.4	15.6	21.5	5.9	4.0	19.0	23.5
United States	2007	1131	83.3	2.2	10.3	3.8	83.3	0.5	0.0	82.9	83.6
	2011	1785	78.8	2.2	14.1	4.0	78.8	0.7	0.2	78.7	78.8
International Avg. (25)	2007	15766	51.9	5.5	28.8	11.8	51.9	1.8	0.1	50.3	53.3
	2011	17625	50.1	5.9	30.9	11.1	50.1	1.5	0.4	48.0	52.2
Alberta, Canada	2007	590	85.1	1.1	8.5	4.5	85.1	0.7	0.1	83.9	86.0
	2011	518	78.8	1.5	12.6	5.0	78.8	1.6	0.4	75.0	82.4
Ontario, Canada	2007	507	82.7	0.2	11.3	4.7	82.7	0.7	0.4	79.3	86.3
	2011	639	76.3	2.1	12.4	7.6	76.3	0.9	0.7	76.4	76.2
Quebec, Canada	2007	557	83.8	1.8	6.3	7.3	83.8	0.8	0.0	86.2	81.0
	2011	615	78.2	3.1	10.9	7.0	78.2	0.7	0.0	80.0	76.6
Dubai, UAE	2007	433	52.5	8.7	25.8	10.6	52.5	2.3	0.0	55.5	50.0
	2011	870	51.7	7.0	28.7	11.3	51.7	1.2	0.2	48.9	53.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S09_04 (S041177): Life Science / Applying

Label: Living things make their own food - Points: 2

COUNTRY	YEAR	N	20 %	10 %	11 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	13.5	22.5	12.7	5.9	42.6	2.5	0.3	48.7	13.5	11.1	15.7
	2011	877	17.8	18.5	9.4	12.4	40.3	1.2	0.5	45.6	17.8	19.3	16.4
Austria	2007	688	9.9	18.5	15.1	8.4	43.8	4.3	0.0	43.5	9.9	9.7	10.0
	2011	672	10.1	16.6	13.8	8.0	46.2	5.2	0.0	40.5	10.1	7.9	12.3
Chinese Taipei	2007	590	21.2	25.2	10.4	6.9	35.4	0.9	0.0	56.8	21.2	20.7	21.7
	2011	614	17.6	24.8	10.2	3.7	43.5	0.1	0.0	52.7	17.6	17.6	17.6
Czech Republic	2007	611	11.3	19.2	11.5	6.0	48.8	3.1	0.1	41.9	11.3	12.6	10.4
	2011	647	19.0	22.1	9.8	3.2	43.8	2.1	0.0	51.0	19.0	19.0	19.1
Denmark	2007	505	10.4	16.7	15.9	13.9	38.5	4.2	0.4	43.1	10.4	13.6	7.1
	2011	580	10.1	16.8	11.2	11.2	44.4	5.4	0.9	38.2	10.1	11.3	8.8
England	2007	623	21.2	20.4	14.8	7.1	34.8	1.7	0.0	56.4	21.2	22.3	20.2
	2011	481	15.3	22.7	13.2	9.1	38.7	0.8	0.2	51.2	15.3	14.7	15.8
Georgia	2007	571	4.4	6.1	5.7	19.6	49.6	14.4	0.1	16.2	4.4	5.5	3.6
	2011	689	5.8	8.5	8.7	14.4	53.4	8.3	0.8	23.0	5.8	5.4	6.1
Germany	2007	748	7.2	15.2	14.4	11.1	47.4	4.7	0.0	36.8	7.2	6.1	8.1
	2011	569	6.8	14.5	13.4	9.8	50.7	4.4	0.5	34.7	6.8	7.9	5.7
Hong Kong SAR	2007	543	22.5	26.2	20.5	5.5	25.0	0.2	0.0	69.2	22.5	20.6	24.2
	2011	561	17.1	27.3	15.0	2.4	37.7	0.5	0.0	59.4	17.1	15.8	18.2
Hungary	2007	574	10.2	13.2	10.9	4.0	57.5	3.8	0.3	34.3	10.2	8.9	11.5
	2011	738	12.0	12.0	8.5	4.2	59.4	3.6	0.4	32.4	12.0	11.8	12.1
Iran, Islamic Rep. of	2007	542	1.6	7.7	13.7	45.9	28.1	2.8	0.2	23.0	1.6	1.0	2.1
	2011	824	5.1	10.9	14.4	33.0	32.4	3.2	0.9	30.4	5.1	6.8	3.5
Italy	2007	635	26.5	18.8	12.2	9.2	29.3	3.6	0.4	57.5	26.5	23.9	28.7
	2011	601	19.8	16.2	15.2	11.4	33.9	3.6	0.0	51.2	19.8	18.6	21.0
Japan	2007	632	13.7	25.3	15.3	6.2	39.3	0.3	0.0	54.2	13.7	13.8	13.5
	2011	634	11.2	18.8	12.4	3.3	53.6	0.6	0.0	42.5	11.2	10.3	12.2
Kuwait	2007	534	4.2	9.8	7.3	23.6	48.5	5.6	1.2	21.3	4.2	4.2	4.2
	2011	587	11.7	12.7	5.4	15.6	49.3	4.1	1.0	29.9	11.7	17.0	5.6
Lithuania	2007	561	8.3	18.6	15.0	20.8	36.4	0.9	0.0	41.9	8.3	9.0	7.6
	2011	693	7.2	21.9	12.1	21.4	35.3	1.8	0.2	41.2	7.2	9.0	5.7
Netherlands	2007	481	9.0	22.0	14.7	4.3	48.2	1.8	0.0	45.7	9.0	9.3	8.7
	2011	467	10.6	22.1	14.5	3.0	48.7	0.9	0.2	47.2	10.6	12.8	8.5
New Zealand	2007	711	15.7	17.4	9.6	8.4	47.4	1.0	0.6	42.7	15.7	15.1	16.4
	2011	804	12.2	20.4	12.0	7.9	45.1	1.7	0.7	44.6	12.2	10.5	13.8
Norway	2007	570	6.6	13.3	11.3	12.6	51.2	4.3	0.7	31.2	6.6	7.5	5.6
	2011	445	6.8	14.5	11.1	6.8	54.7	5.8	0.3	32.4	6.8	6.2	7.7
Russian Federation	2007	638	8.7	33.6	19.3	7.8	29.5	1.2	0.0	61.5	8.7	6.8	10.8
	2011	644	5.0	34.7	12.9	6.6	40.1	0.7	0.0	52.5	5.0	4.0	5.9
Singapore	2007	723	53.6	21.8	9.9	5.2	9.4	0.1	0.0	85.2	53.6	53.4	53.8
	2011	906	48.9	23.5	10.3	3.6	13.7	0.1	0.0	82.7	48.9	46.1	51.5
Slovak Republic	2007	715	9.5	20.6	12.2	11.6	41.2	4.9	0.0	42.3	9.5	7.9	11.2
	2011	803	11.3	23.1	8.3	8.4	45.6	2.8	0.5	42.7	11.3	12.4	10.3
Slovenia	2007	619	13.9	21.0	9.3	10.7	42.5	2.5	0.0	44.3	13.9	16.1	11.9
	2011	637	16.3	17.1	9.8	9.7	43.1	3.5	0.4	43.3	16.3	18.1	14.8

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

S09_04 (S041177): Life Science / Applying

Label: Living things make their own food - Points: 2

COUNTRY	YEAR	N	20 %	10 %	11 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	6.6	11.0	11.5	9.9	58.3	2.6	0.0	29.2	6.6	6.5	6.8
	2011	686	4.0	19.6	11.1	8.4	52.9	3.1	0.8	34.7	4.0	4.9	3.0
Tunisia	2007	591	2.5	7.6	13.0	10.1	62.2	4.2	0.5	23.0	2.5	2.2	2.8
	2011	692	2.7	10.7	15.5	9.0	52.4	5.3	4.4	28.8	2.7	3.0	2.5
United States	2007	1131	38.5	22.6	10.5	5.1	22.5	0.7	0.0	71.7	38.5	39.2	37.9
	2011	1785	41.7	23.6	6.9	4.5	22.5	0.6	0.3	72.1	41.7	41.6	41.8
International Avg. (25)	2007	15774	14.0	18.2	12.7	11.2	40.7	3.0	0.2	44.9	14.0	13.9	14.2
	2011	17636	13.9	18.9	11.4	9.2	43.3	2.8	0.5	44.2	13.9	14.1	13.6
Alberta, Canada	2007	590	27.8	22.2	13.1	5.5	30.6	0.7	0.1	63.0	27.8	29.3	26.4
	2011	518	22.9	24.0	14.4	9.0	27.1	2.1	0.4	61.3	22.9	23.9	22.1
Ontario, Canada	2007	507	27.6	21.9	13.7	4.9	31.1	0.4	0.4	63.2	27.6	26.6	28.5
	2011	639	28.0	22.1	9.3	5.3	32.8	1.9	0.7	59.4	28.0	28.5	27.6
Quebec, Canada	2007	557	17.7	19.7	15.3	3.9	41.5	1.8	0.0	52.8	17.7	19.4	15.8
	2011	614	17.9	19.7	8.6	6.0	45.7	2.1	0.0	46.1	17.9	18.5	17.4
Dubai, UAE	2007	433	19.1	27.7	13.8	15.2	22.1	2.1	0.0	60.6	19.1	22.9	15.7
	2011	870	18.3	22.4	9.9	8.0	39.7	1.5	0.2	50.6	18.3	16.2	19.9

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

S09_05 (S041183): Life Science / Applying
Label: Maintaining good physical health - Points: 2

COUNTRY	YEAR	N	20 %	29 %	10 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	17.5	1.5	51.0	10.1	11.4	8.3	0.3	80.1	19.0	18.2	19.8
	2011	877	8.8	3.1	57.3	5.5	14.5	10.1	0.7	74.7	11.9	11.3	12.4
Austria	2007	688	14.8	2.9	59.0	7.2	8.0	8.2	0.0	83.8	17.6	21.2	14.0
	2011	672	10.1	4.0	59.5	10.8	6.7	9.0	0.0	84.3	14.1	15.7	12.5
Chinese Taipei	2007	590	28.7	2.1	48.7	6.1	8.1	6.3	0.0	85.6	30.8	31.7	30.0
	2011	614	38.5	6.2	37.9	8.6	3.2	5.6	0.0	91.2	44.7	49.4	40.6
Czech Republic	2007	611	19.3	0.8	29.6	2.4	23.5	24.3	0.1	52.1	20.1	22.2	18.7
	2011	647	21.8	0.6	40.1	4.7	16.4	16.5	0.0	67.1	22.4	20.7	23.9
Denmark	2007	505	14.1	0.0	68.3	1.6	7.4	8.3	0.4	84.0	14.1	17.5	10.5
	2011	580	13.7	0.3	68.2	0.0	8.4	8.4	1.0	82.2	14.0	14.5	13.6
England	2007	623	20.5	2.4	44.0	1.3	20.8	11.0	0.0	68.2	22.9	30.2	16.1
	2011	481	15.3	7.4	41.6	5.1	17.3	12.8	0.4	69.5	22.7	24.1	21.5
Georgia	2007	571	12.7	1.3	15.6	8.5	32.4	29.2	0.2	38.1	14.0	15.2	13.1
	2011	689	17.6	2.7	35.1	10.2	15.2	18.4	0.8	65.6	20.3	20.3	20.3
Germany	2007	748	16.6	5.7	48.7	11.4	9.7	7.9	0.0	82.4	22.3	21.0	23.4
	2011	569	8.1	5.3	48.5	17.6	13.6	6.4	0.5	79.5	13.4	14.7	12.2
Hong Kong SAR	2007	543	26.5	7.9	43.6	9.4	7.6	5.0	0.0	87.4	34.3	39.5	29.9
	2011	561	24.5	4.0	43.6	9.3	12.5	6.1	0.0	81.4	28.6	29.5	27.8
Hungary	2007	574	29.8	5.7	36.9	2.8	11.8	12.6	0.3	75.3	35.5	41.6	29.1
	2011	740	32.0	4.1	39.0	2.5	12.8	9.0	0.5	77.7	36.2	37.7	34.8
Iran, Islamic Rep. of	2007	542	7.0	5.0	39.1	15.6	15.4	17.7	0.2	66.7	12.0	10.1	13.8
	2011	824	6.3	4.0	41.4	11.4	20.0	15.7	1.1	63.1	10.3	12.0	8.7
Italy	2007	635	15.5	0.4	60.3	6.9	5.7	10.7	0.5	83.1	16.0	16.9	15.1
	2011	601	11.3	0.7	52.1	4.0	21.8	10.1	0.0	68.2	12.0	12.3	11.7
Japan	2007	632	7.0	4.7	59.1	16.5	8.6	4.1	0.0	87.2	11.7	11.8	11.6
	2011	634	14.9	7.4	56.6	11.5	6.2	3.4	0.0	90.4	22.3	21.0	23.7
Kuwait	2007	534	9.5	0.3	19.9	2.5	12.7	53.6	1.4	32.3	9.8	12.4	7.2
	2011	587	5.7	0.0	19.8	1.7	31.7	39.8	1.2	27.3	5.7	7.8	3.3
Lithuania	2007	561	18.7	2.3	61.1	1.7	7.8	8.5	0.0	83.7	21.0	26.7	15.9
	2011	693	15.9	0.2	63.4	2.8	10.5	7.0	0.2	82.3	16.2	17.5	15.0
Netherlands	2007	481	28.8	2.0	60.4	2.2	3.9	2.8	0.0	93.3	30.8	35.9	25.9
	2011	467	20.8	4.4	52.9	1.7	16.0	3.9	0.2	79.8	25.2	24.1	26.3
New Zealand	2007	711	15.9	2.3	48.9	8.3	14.9	9.3	0.6	75.3	18.1	22.1	14.4
	2011	804	12.8	3.8	45.0	3.3	27.9	6.5	0.7	64.8	16.5	16.5	16.6
Norway	2007	570	7.4	1.5	60.1	7.6	13.7	8.8	0.9	76.6	8.9	10.7	6.9
	2011	445	7.3	1.5	66.3	4.3	12.3	8.0	0.3	79.4	8.8	11.3	5.5
Russian Federation	2007	638	12.0	0.4	71.4	6.8	5.8	3.5	0.0	90.6	12.4	13.0	11.8
	2011	644	14.4	1.2	70.7	4.0	3.5	6.2	0.0	90.3	15.7	18.5	12.8
Singapore	2007	723	34.5	2.0	48.5	0.8	11.8	2.5	0.0	85.7	36.4	39.1	34.0
	2011	906	32.0	2.2	53.0	2.5	7.9	2.4	0.0	89.7	34.2	36.7	31.8
Slovak Republic	2007	715	19.9	6.2	44.3	8.8	7.4	13.4	0.0	79.2	26.1	30.5	21.5
	2011	803	17.7	2.5	44.6	4.0	19.8	10.9	0.5	68.8	20.2	24.8	15.8
Slovenia	2007	619	17.4	1.6	52.6	3.5	11.2	13.6	0.0	75.2	19.0	20.2	17.9
	2011	637	16.6	1.5	41.2	5.0	13.7	21.7	0.4	64.3	18.0	18.9	17.3

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

S09_05 (S041183): Life Science / Applying

Label: Maintaining good physical health - Points: 2

COUNTRY	YEAR	N	20 %	29 %	10 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	6.0	1.6	48.1	10.0	22.5	11.2	0.7	65.7	7.6	7.5	7.7
	2011	686	10.5	2.6	49.4	9.2	17.8	9.7	0.8	71.6	13.0	16.0	9.7
Tunisia	2007	591	13.0	2.5	17.7	5.9	31.2	29.0	0.8	39.1	15.5	16.8	14.3
	2011	692	5.6	0.5	26.9	0.7	40.6	20.9	4.8	33.7	6.1	7.6	5.0
United States	2007	1131	34.0	4.1	36.8	5.9	13.4	5.8	0.0	80.9	38.1	40.0	36.2
	2011	1785	24.7	4.4	45.1	4.4	17.6	3.6	0.3	78.5	29.0	28.2	29.8
International Avg. (25)	2007	15774	17.9	2.7	46.9	6.5	13.1	12.6	0.3	74.1	20.6	22.9	18.3
	2011	17638	16.3	3.0	48.0	5.8	15.5	10.9	0.6	73.0	19.3	20.4	18.1
Alberta, Canada	2007	590	18.5	3.6	58.8	3.4	9.2	6.4	0.1	84.3	22.1	23.9	20.5
	2011	518	18.6	2.3	42.1	13.3	15.1	8.1	0.4	76.4	20.9	24.7	17.4
Ontario, Canada	2007	507	28.7	2.3	48.5	3.8	8.4	8.1	0.4	83.2	30.9	34.9	26.8
	2011	639	25.6	4.1	42.4	8.6	12.4	6.1	0.8	80.7	29.7	30.9	28.5
Quebec, Canada	2007	557	20.9	1.2	65.3	5.4	3.3	3.8	0.0	92.8	22.1	19.6	24.9
	2011	615	19.6	3.5	60.9	5.6	4.3	6.1	0.0	89.6	23.1	26.0	20.5
Dubai, UAE	2007	433	17.1	1.8	38.2	4.6	16.7	21.5	0.1	61.7	18.9	24.5	13.6
	2011	870	14.2	1.5	37.3	2.1	22.2	22.5	0.2	55.0	15.7	15.8	15.6

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

S09_06 (S041008): Life Science / Knowing
Label: Which animal is a mammal - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	576	54.5	54.5	7.5	25.2	10.1	2.4	0.3	50.6	58.2
	2011	877	47.6	47.6	9.9	25.6	14.5	1.2	1.2	45.6	49.5
Austria	2007	688	49.5	49.5	12.9	20.0	13.1	4.5	0.0	48.9	50.1
	2011	672	47.8	47.8	11.9	19.2	16.7	4.5	0.0	46.5	49.0
Chinese Taipei	2007	590	48.6	48.6	10.8	31.6	8.1	1.0	0.0	42.7	54.2
	2011	614	55.6	55.6	8.5	29.0	6.2	0.7	0.0	57.0	54.4
Czech Republic	2007	611	64.0	64.0	3.3	12.5	10.2	9.8	0.1	63.9	64.1
	2011	647	76.2	76.2	2.8	9.8	10.0	1.1	0.0	76.7	75.8
Denmark	2007	500	53.9	53.9	9.3	23.0	11.2	2.2	0.4	53.4	54.5
	2011	580	51.6	51.6	7.6	24.2	11.1	4.0	1.4	52.7	50.4
England	2007	623	46.2	46.2	7.6	32.8	12.2	1.2	0.0	43.2	49.0
	2011	481	41.1	41.1	8.6	30.0	18.7	1.0	0.6	43.2	39.2
Georgia	2007	571	33.4	33.4	1.7	50.2	12.6	2.0	0.2	25.9	38.7
	2011	690	29.7	29.7	4.6	56.7	5.7	2.5	0.8	23.4	34.9
Germany	2007	748	48.4	48.4	11.7	24.3	12.1	3.4	0.0	50.2	46.9
	2011	569	47.9	47.9	12.4	20.6	13.5	5.1	0.5	49.8	46.2
Hong Kong SAR	2007	543	47.3	47.3	9.6	35.6	6.7	0.7	0.0	40.5	53.1
	2011	561	50.9	50.9	9.7	29.7	8.6	1.1	0.0	50.0	51.6
Hungary	2007	574	69.4	69.4	5.4	10.9	10.4	3.6	0.3	71.7	66.9
	2011	740	68.0	68.0	5.4	10.6	11.1	3.9	1.0	66.9	68.9
Iran, Islamic Rep. of	2007	542	25.6	25.6	29.2	29.1	10.7	4.9	0.5	19.4	31.6
	2011	824	36.4	36.4	25.5	21.9	11.8	3.2	1.2	31.4	41.3
Italy	2007	624	61.8	61.8	8.5	19.3	7.1	2.8	0.5	55.2	67.5
	2011	601	63.8	63.8	6.0	19.3	8.0	2.7	0.2	61.8	66.0
Japan	2007	632	50.3	50.3	12.7	21.8	10.1	5.0	0.0	50.2	50.5
	2011	634	43.4	43.4	14.0	26.8	9.5	6.2	0.0	42.0	45.0
Kuwait	2007	534	37.1	37.1	20.5	25.1	11.3	4.2	1.8	35.5	38.8
	2011	581	28.6	28.6	25.4	23.4	12.4	8.8	1.4	30.4	26.5
Lithuania	2007	561	50.6	50.6	10.4	24.7	11.9	2.4	0.0	56.7	45.2
	2011	693	47.1	47.1	10.4	20.9	18.3	3.2	0.2	49.2	45.2
Netherlands	2007	481	38.7	38.7	9.5	32.9	17.6	1.3	0.0	38.2	39.1
	2011	467	40.0	40.0	14.7	30.6	12.8	1.8	0.2	35.9	43.8
New Zealand	2007	711	48.8	48.8	7.2	27.4	15.5	0.4	0.7	49.2	48.5
	2011	804	40.1	40.1	7.6	29.9	19.8	1.6	1.0	36.5	43.4
Norway	2007	570	47.2	47.2	19.1	17.4	12.7	2.6	1.1	55.0	38.8
	2011	445	33.9	33.9	30.5	16.3	13.8	5.3	0.3	34.5	33.0
Russian Federation	2007	637	46.2	46.2	16.4	11.1	23.4	2.9	0.0	46.9	45.3
	2011	644	48.2	48.2	15.9	10.5	23.7	1.6	0.0	48.2	48.3
Singapore	2007	723	69.0	69.0	5.9	21.9	3.3	0.0	0.0	67.1	70.8
	2011	906	70.6	70.6	2.9	22.8	3.7	0.0	0.0	70.6	70.7
Slovak Republic	2007	715	69.9	69.9	4.4	11.5	12.7	1.5	0.0	74.2	65.5
	2011	803	70.6	70.6	4.3	12.7	10.3	1.8	0.5	73.6	67.7
Slovenia	2007	619	46.1	46.1	6.7	24.0	21.1	2.1	0.0	42.9	49.1
	2011	630	45.4	45.4	5.4	26.1	20.8	1.7	0.6	43.7	46.9

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

S09_06 (S041008): Life Science / Knowing
Label: Which animal is a mammal - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	649	36.4	36.4	16.4	28.3	16.5	1.8	0.7	38.0	34.7
	2011	686	38.7	38.7	14.3	21.4	20.7	4.0	0.8	42.5	34.5
Tunisia	2007	591	26.4	26.4	17.9	23.1	14.7	16.2	1.7	24.4	28.4
	2011	668	21.7	21.7	17.9	22.5	19.7	12.1	6.0	22.2	21.4
United States	2007	1131	64.9	64.9	8.1	19.4	6.9	0.7	0.0	64.4	65.5
	2011	1785	65.1	65.1	6.8	18.9	6.9	2.1	0.3	64.2	65.8
International Avg. (25)	2007	15744	49.4	49.4	10.9	24.1	12.1	3.2	0.3	48.3	50.2
	2011	17602	48.4	48.4	11.3	23.2	13.1	3.2	0.7	47.9	48.8
Alberta, Canada	2007	590	67.4	67.4	7.4	15.6	8.3	1.1	0.1	68.1	66.8
	2011	518	61.3	61.3	6.9	21.3	8.4	1.1	1.0	61.6	61.1
Ontario, Canada	2007	507	54.4	54.4	7.7	23.1	12.2	2.2	0.4	51.3	57.5
	2011	639	56.7	56.7	10.0	23.1	8.6	0.8	0.8	52.7	60.7
Quebec, Canada	2007	557	52.7	52.7	6.1	24.8	12.7	3.5	0.0	49.3	56.7
	2011	615	48.6	48.6	8.8	28.1	11.9	2.5	0.0	50.9	46.6
Dubai, UAE	2007	433	38.0	38.0	20.0	31.2	8.2	2.6	0.1	40.5	35.8
	2011	870	40.4	40.4	15.2	27.0	15.3	1.6	0.4	35.5	44.4

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

S09_08 (S041195): Physical Science / Applying
Label: Bulb lights in which circuit - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	30.0	13.7	31.5	21.2	0.8	2.6	0.4	30.0	21.2	38.3
	2011	877	13.6	21.4	42.0	19.7	1.2	1.2	1.4	13.6	10.9	16.0
Austria	2007	688	29.3	30.3	26.0	10.6	0.9	2.9	0.0	29.3	30.3	28.3
	2011	672	25.0	27.2	35.2	10.3	1.2	1.1	0.0	25.0	21.5	28.4
Chinese Taipei	2007	590	54.5	21.0	9.9	12.8	1.6	0.3	0.0	54.5	50.8	58.0
	2011	614	43.8	27.7	16.2	11.7	0.3	0.3	0.0	43.8	41.4	45.9
Czech Republic	2007	611	23.4	28.4	31.0	12.3	1.2	3.6	0.1	23.4	19.5	26.0
	2011	647	17.8	30.5	32.5	14.7	1.7	2.7	0.0	17.8	12.3	23.0
Denmark	2007	505	34.1	16.8	31.2	11.8	2.6	1.7	1.7	34.1	31.5	36.8
	2011	580	29.9	13.7	28.6	13.0	10.5	2.7	1.6	29.9	29.0	30.9
England	2007	623	29.9	24.6	28.9	14.7	1.0	0.9	0.0	29.9	29.7	30.0
	2011	481	23.8	20.3	38.9	14.4	1.3	0.7	0.7	23.8	21.6	25.7
Georgia	2007	571	8.4	31.4	13.3	25.8	8.1	12.7	0.2	8.4	9.0	8.0
	2011	690	4.9	33.1	17.9	24.6	6.0	12.6	0.8	4.9	4.0	5.6
Germany	2007	748	28.8	29.7	31.2	7.1	0.7	2.1	0.4	28.8	27.0	30.4
	2011	569	26.5	28.2	35.0	7.9	0.3	1.3	0.8	26.5	26.4	26.6
Hong Kong SAR	2007	543	25.5	27.1	39.0	6.2	1.2	1.0	0.0	25.5	21.0	29.4
	2011	561	21.0	27.7	43.5	6.5	0.6	0.7	0.0	21.0	18.6	23.2
Hungary	2007	574	14.8	31.7	28.5	18.7	2.4	3.6	0.3	14.8	11.6	18.2
	2011	740	10.2	30.9	31.7	21.9	1.6	2.2	1.5	10.2	9.4	11.0
Iran, Islamic Rep. of	2007	542	16.8	26.0	13.5	28.6	10.9	3.5	0.7	16.8	19.3	14.4
	2011	824	21.6	27.5	14.5	30.3	2.2	1.9	2.1	21.6	21.2	21.9
Italy	2007	635	13.6	29.6	26.4	19.5	1.4	8.7	0.8	13.6	13.6	13.7
	2011	601	11.3	24.9	35.9	20.4	3.2	4.2	0.2	11.3	11.6	11.1
Japan	2007	632	50.6	33.4	9.0	6.4	0.5	0.1	0.0	50.6	53.9	47.4
	2011	634	63.9	18.2	8.9	4.5	4.5	0.0	0.0	63.9	65.5	62.3
Kuwait	2007	534	4.8	27.8	23.4	30.7	6.9	4.6	1.9	4.8	4.7	4.9
	2011	587	4.4	33.1	27.7	19.6	8.1	5.4	1.6	4.4	7.0	1.5
Lithuania	2007	561	27.5	26.3	27.7	15.6	0.4	2.5	0.0	27.5	30.1	25.2
	2011	693	18.9	36.8	30.5	10.6	1.1	2.0	0.2	18.9	16.7	20.9
Netherlands	2007	481	23.0	24.1	42.9	8.4	0.3	1.3	0.0	23.0	23.3	22.7
	2011	467	18.3	23.3	45.0	10.6	2.3	0.4	0.2	18.3	15.6	20.9
New Zealand	2007	711	22.9	26.3	30.8	17.3	1.3	0.6	0.9	22.9	21.5	24.1
	2011	804	21.0	26.2	32.0	18.1	0.3	1.1	1.3	21.0	21.0	21.0
Norway	2007	570	19.8	19.8	37.1	18.6	1.8	1.7	1.2	19.8	21.3	18.3
	2011	445	15.0	21.7	40.5	19.3	0.3	2.7	0.5	15.0	15.5	14.3
Russian Federation	2007	638	28.4	33.0	26.3	9.8	0.1	2.4	0.0	28.4	26.8	30.1
	2011	644	19.4	35.4	33.3	9.5	0.4	1.8	0.2	19.4	18.0	20.7
Singapore	2007	723	32.2	28.5	27.1	10.4	1.6	0.2	0.0	32.2	30.7	33.5
	2011	906	39.6	23.8	22.7	13.3	0.6	0.1	0.0	39.6	42.2	37.2
Slovak Republic	2007	716	27.9	23.5	27.2	12.0	5.2	3.7	0.4	27.9	25.8	30.1
	2011	803	21.6	32.7	29.2	12.1	1.9	2.0	0.5	21.6	19.8	23.2
Slovenia	2007	619	26.9	23.2	31.1	15.5	1.7	1.7	0.0	26.9	26.0	27.8
	2011	637	31.0	23.2	32.8	10.7	1.1	0.6	0.6	31.0	27.4	34.1

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

S09_08 (S041195): Physical Science / Applying
Label: Bulb lights in which circuit - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	72 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	22.2	25.7	30.0	18.2	1.1	2.2	0.7	22.2	23.6	20.7
	2011	686	28.5	21.7	29.5	15.9	0.9	2.6	1.0	28.5	27.0	30.1
Tunisia	2007	.	.	.	.	.	.	.	.	.	.	.
	2011	693	2.1	37.5	14.8	25.2	9.3	4.0	7.1	2.1	2.6	1.6
United States	2007	1131	29.7	25.0	32.7	11.7	0.3	0.6	0.0	29.7	28.6	30.8
	2011	1785	29.3	22.0	32.4	13.3	0.8	1.8	0.4	29.3	28.1	30.4
International Avg. (25)	2007	15184	26.0	26.1	27.3	15.2	2.2	2.7	0.4	26.0	25.0	27.0
	2011	17640	22.5	26.8	30.0	15.1	2.4	2.2	0.9	22.5	21.4	23.5
Alberta, Canada	2007	590	32.4	18.1	33.9	12.4	1.8	1.3	0.1	32.4	30.3	34.2
	2011	518	17.8	23.5	42.2	12.6	1.5	1.4	1.0	17.8	15.2	20.3
Ontario, Canada	2007	507	21.6	15.3	43.0	16.1	2.2	1.4	0.4	21.6	20.0	23.3
	2011	639	19.1	16.6	42.2	17.5	1.6	1.9	1.2	19.1	17.2	21.0
Quebec, Canada	2007	557	25.5	15.1	36.0	18.5	2.5	2.4	0.0	25.5	25.0	26.0
	2011	614	16.4	19.2	40.6	19.5	1.6	1.8	0.9	16.4	13.7	18.8
Dubai, UAE	2007	433	16.3	30.2	28.8	18.0	2.7	3.5	0.5	16.3	18.9	14.1
	2011	870	18.6	26.1	32.9	18.9	1.3	1.7	0.5	18.6	17.2	19.8

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

S09_09C (S041134C): Physical Science / Reasoning
Label: Method gives the less sweet drink - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	578	50.8	12.7	12.2	20.0	50.8	2.6	1.7	48.3	53.2
	2011	877	51.1	14.2	8.4	22.0	51.1	2.3	2.0	55.9	46.6
Austria	2007	688	54.2	12.4	8.4	18.9	54.2	5.8	0.2	54.8	53.7
	2011	672	53.3	11.0	10.1	20.7	53.3	4.5	0.4	54.8	51.7
Chinese Taipei	2007	590	66.6	9.1	8.0	15.4	66.6	0.9	0.0	69.0	64.3
	2011	614	68.6	8.4	10.4	11.2	68.6	1.1	0.3	69.9	67.5
Czech Republic	2007	611	43.4	12.4	16.1	23.8	43.4	3.5	0.8	44.8	42.4
	2011	647	52.3	12.0	12.9	19.8	52.3	2.4	0.5	53.2	51.5
Denmark	2007	505	49.0	12.0	10.5	23.0	49.0	2.8	2.7	49.4	48.6
	2011	580	50.1	9.5	10.4	22.1	50.1	4.8	3.1	52.3	47.9
England	2007	623	49.1	14.5	15.5	18.6	49.1	2.2	0.0	50.8	47.6
	2011	481	50.6	13.9	11.1	19.4	50.6	3.1	2.0	53.2	48.4
Georgia	2007	571	30.4	17.9	17.0	18.9	30.4	12.7	3.1	28.1	32.1
	2011	688	37.0	16.9	15.0	19.2	37.0	8.6	3.3	42.4	32.6
Germany	2007	748	54.9	9.8	9.0	22.4	54.9	3.1	0.7	58.3	51.9
	2011	569	55.1	10.1	5.4	24.2	55.1	3.5	1.7	56.2	54.2
Hong Kong SAR	2007	543	58.4	9.7	12.8	18.0	58.4	1.0	0.0	60.0	57.1
	2011	561	60.2	7.6	12.7	19.1	60.2	0.4	0.0	61.0	59.5
Hungary	2007	574	52.1	12.8	13.9	16.8	52.1	3.2	1.2	53.9	50.2
	2011	740	54.9	10.2	10.3	18.1	54.9	2.3	4.2	57.4	52.7
Iran, Islamic Rep. of	2007	542	33.5	18.4	13.8	22.2	33.5	10.2	2.0	35.0	32.0
	2011	824	38.0	16.4	11.7	23.4	38.0	6.3	4.3	35.6	40.3
Italy	2007	635	50.2	9.6	7.9	23.6	50.2	6.7	2.0	47.7	52.5
	2011	601	48.7	13.8	9.6	23.5	48.7	2.9	1.5	51.3	46.0
Japan	2007	632	72.3	4.7	5.3	16.6	72.3	0.9	0.2	75.2	69.5
	2011	634	74.2	5.6	4.7	13.8	74.2	1.1	0.6	76.3	72.0
Kuwait	2007	534	21.0	17.0	22.4	29.1	21.0	6.4	4.0	18.0	24.0
	2011	582	24.9	18.0	22.8	24.4	24.9	6.5	3.4	29.5	19.4
Lithuania	2007	561	61.4	7.8	9.5	18.9	61.4	1.7	0.7	62.3	60.6
	2011	693	58.6	10.9	11.4	17.5	58.6	1.2	0.4	64.5	53.6
Netherlands	2007	481	54.0	8.4	12.2	23.1	54.0	2.3	0.0	56.9	51.2
	2011	467	56.9	9.0	8.3	24.1	56.9	1.1	0.7	54.9	58.7
New Zealand	2007	711	51.1	13.9	11.5	19.3	51.1	3.1	1.2	53.6	48.7
	2011	804	51.0	14.2	9.9	21.4	51.0	1.8	1.7	55.6	46.8
Norway	2007	570	50.9	9.5	14.0	20.5	50.9	3.1	2.0	51.9	49.8
	2011	445	48.5	14.8	9.2	22.7	48.5	2.7	2.1	46.9	50.7
Russian Federation	2007	638	34.7	10.3	20.5	30.8	34.7	3.6	0.1	39.5	29.4
	2011	644	48.9	11.2	12.9	23.8	48.9	2.3	1.0	54.1	43.7
Singapore	2007	723	67.5	8.8	8.9	14.4	67.5	0.4	0.0	70.8	64.4
	2011	906	63.6	10.8	11.0	14.1	63.6	0.3	0.2	65.8	61.5
Slovak Republic	2007	716	50.5	11.5	13.0	19.7	50.5	4.2	1.0	52.3	48.7
	2011	803	56.4	12.5	11.1	17.3	56.4	2.0	0.8	58.9	53.9
Slovenia	2007	619	59.6	8.4	9.3	18.5	59.6	3.9	0.3	62.9	56.5
	2011	637	58.5	11.3	7.6	17.8	58.5	3.3	1.6	60.1	57.1

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

S09_09C (S041134C): Physical Science / Reasoning
Label: Method gives the less sweet drink - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	658	56.4	12.1	9.3	17.5	56.4	3.1	1.5	56.3	56.4
	2011	686	51.7	9.9	12.6	22.0	51.7	2.0	1.8	50.7	52.9
Tunisia	2007	591	23.4	10.4	16.6	31.7	23.4	12.2	5.6	24.9	21.9
	2011	682	22.2	12.1	13.5	29.8	22.2	10.9	11.4	24.5	20.3
United States	2007	1131	48.9	13.4	10.4	25.9	48.9	1.0	0.3	50.0	47.9
	2011	1785	48.9	11.9	10.4	25.8	48.9	1.8	1.2	48.0	49.7
International Avg. (25)	2007	15773	49.8	11.5	12.3	21.1	49.8	4.0	1.3	51.0	48.6
	2011	17622	51.4	11.8	10.9	20.7	51.4	3.2	2.0	53.3	49.6
Alberta, Canada	2007	590	47.9	15.2	8.7	26.4	47.9	1.6	0.3	50.6	45.5
	2011	518	51.7	8.9	11.6	22.6	51.7	3.2	2.0	51.2	52.2
Ontario, Canada	2007	507	53.6	7.4	11.4	26.2	53.6	0.9	0.5	52.9	54.4
	2011	639	47.0	14.0	10.5	24.4	47.0	1.8	2.3	47.8	46.1
Quebec, Canada	2007	557	53.7	8.2	9.1	25.2	53.7	3.5	0.4	53.6	53.8
	2011	615	48.7	12.4	13.3	20.8	48.7	3.9	1.1	50.0	47.4
Dubai, UAE	2007	433	41.1	19.7	12.7	19.6	41.1	5.7	1.2	49.2	33.5
	2011	870	46.9	11.5	12.4	24.7	46.9	2.8	1.7	47.0	46.8

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

S09_09A (S041134A): Physical Science / Reasoning
Label: 1 or 2 dissolves the candy fastest - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	66.2	30.8	2.3	0.8	66.2	72.1	60.6
	2011	877	28.6	68.4	1.5	1.4	28.6	30.0	27.3
Austria	2007	688	20.5	74.1	5.4	0.0	20.5	20.1	20.9
	2011	672	27.0	70.1	2.8	0.0	27.0	26.7	27.4
Chinese Taipei	2007	590	77.8	21.8	0.4	0.0	77.8	81.4	74.2
	2011	614	21.7	77.6	0.6	0.0	21.7	22.5	21.1
Czech Republic	2007	611	50.9	44.5	4.5	0.1	50.9	55.6	47.6
	2011	647	19.9	77.7	2.2	0.2	19.9	17.0	22.7
Denmark	2007	504	62.0	34.0	1.7	2.3	62.0	67.0	56.7
	2011	580	33.4	62.0	3.1	1.6	33.4	33.6	33.1
England	2007	623	22.4	75.4	2.2	0.0	22.4	27.4	17.7
	2011	481	22.1	74.5	2.7	0.7	22.1	23.4	21.0
Georgia	2007	571	5.4	76.3	16.7	1.6	5.4	6.5	4.6
	2011	690	21.9	60.6	15.7	1.8	21.9	27.1	17.7
Germany	2007	748	27.7	68.6	3.3	0.4	27.7	28.2	27.4
	2011	569	24.9	72.7	1.3	1.1	24.9	25.0	24.9
Hong Kong SAR	2007	543	65.7	33.5	0.8	0.0	65.7	69.7	62.3
	2011	561	14.0	85.5	0.6	0.0	14.0	16.2	11.9
Hungary	2007	574	53.2	43.6	2.8	0.3	53.2	58.4	47.8
	2011	740	17.1	78.5	2.0	2.4	17.1	16.4	17.7
Iran, Islamic Rep. of	2007	542	35.7	57.0	6.5	0.7	35.7	42.5	29.3
	2011	824	29.0	62.5	6.4	2.1	29.0	32.2	25.9
Italy	2007	635	48.2	45.1	5.6	1.2	48.2	51.5	45.3
	2011	601	21.9	75.7	2.2	0.2	21.9	21.7	22.2
Japan	2007	632	38.9	60.8	0.4	0.0	38.9	41.3	36.4
	2011	634	75.9	23.1	1.0	0.0	75.9	80.8	70.9
Kuwait	2007	534	9.7	79.3	8.5	2.4	9.7	14.0	5.4
	2011	587	7.8	82.7	7.1	2.5	7.8	11.6	3.3
Lithuania	2007	561	64.6	34.8	0.6	0.0	64.6	73.3	56.8
	2011	693	13.7	84.2	1.9	0.3	13.7	11.8	15.3
Netherlands	2007	481	54.6	44.1	1.3	0.0	54.6	59.2	50.2
	2011	467	44.9	54.0	0.9	0.2	44.9	48.8	41.3
New Zealand	2007	711	20.5	76.5	2.1	0.9	20.5	21.4	19.7
	2011	804	18.3	79.2	1.2	1.3	18.3	21.0	15.8
Norway	2007	570	15.2	79.8	3.6	1.3	15.2	16.0	14.4
	2011	445	14.5	81.8	3.1	0.5	14.5	12.2	17.5
Russian Federation	2007	638	58.7	38.1	3.2	0.0	58.7	62.7	54.1
	2011	644	19.4	78.0	2.1	0.5	19.4	21.7	17.1
Singapore	2007	723	29.4	70.0	0.7	0.0	29.4	30.6	28.2
	2011	906	35.6	64.1	0.3	0.0	35.6	35.9	35.2
Slovak Republic	2007	716	52.6	41.4	5.5	0.5	52.6	57.4	47.7
	2011	803	14.9	82.3	2.2	0.5	14.9	16.3	13.6
Slovenia	2007	619	59.8	37.5	2.8	0.0	59.8	63.4	56.4
	2011	637	64.8	32.3	2.3	0.6	64.8	70.6	59.7

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

S09_09A (S041134A): Physical Science / Reasoning
Label: 1 or 2 dissolves the candy fastest - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	18.3	78.2	2.9	0.7	18.3	17.2	19.6
	2011	686	27.8	69.7	1.5	1.0	27.8	29.1	26.3
Tunisia	2007	591	15.2	71.8	9.9	3.1	15.2	19.2	11.4
	2011	693	8.3	76.7	7.5	7.5	8.3	8.5	8.3
United States	2007	1131	60.3	39.0	0.6	0.1	60.3	61.9	58.8
	2011	1785	46.4	52.2	0.9	0.5	46.4	47.9	45.0

International Avg. (25)	2007	15774	41.3	54.2	3.8	0.7	41.3	44.7	38.1
	2011	17640	27.0	69.0	2.9	1.1	27.0	28.3	25.7

Alberta, Canada	2007	590	71.2	28.0	0.7	0.1	71.2	75.3	67.7
	2011	518	38.2	58.9	1.6	1.3	38.2	37.9	38.5
Ontario, Canada	2007	507	67.2	31.3	1.0	0.4	67.2	66.8	67.7
	2011	639	36.2	61.3	1.3	1.2	36.2	37.5	34.9
Quebec, Canada	2007	557	57.9	38.5	3.6	0.0	57.9	60.6	54.8
	2011	614	20.2	75.5	3.4	0.9	20.2	24.4	16.5
Dubai, UAE	2007	433	30.9	64.8	3.6	0.7	30.9	35.7	26.6
	2011	870	16.0	80.6	2.6	0.8	16.0	15.5	16.4

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

S09_09B (S041134B): Physical Science / Reasoning
Label: 1 or 3 dissolves the candy fastest - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	51.1	9.5	35.5	2.4	1.5	51.1	58.4	44.4
	2011	877	44.1	10.9	41.8	1.4	1.8	44.1	49.1	39.4
Austria	2007	688	46.8	12.1	33.5	7.7	0.0	46.8	51.2	42.1
	2011	672	48.8	18.1	29.5	3.1	0.4	48.8	50.1	47.6
Chinese Taipei	2007	590	83.4	5.9	10.3	0.4	0.0	83.4	84.9	81.8
	2011	614	78.2	4.4	16.6	0.6	0.2	78.2	83.3	73.8
Czech Republic	2007	611	47.2	15.5	32.6	4.4	0.4	47.2	52.1	43.8
	2011	647	59.6	13.4	24.0	2.4	0.5	59.6	63.7	55.9
Denmark	2007	504	59.8	15.0	19.4	3.3	2.4	59.8	63.6	55.8
	2011	580	55.4	9.4	28.7	4.2	2.3	55.4	58.9	51.7
England	2007	623	46.2	8.8	43.1	1.9	0.0	46.2	44.7	47.5
	2011	481	48.6	9.9	36.9	2.9	1.8	48.6	54.6	43.3
Georgia	2007	571	16.9	19.5	42.5	19.0	2.1	16.9	21.5	13.5
	2011	688	22.7	21.7	37.2	15.1	3.2	22.7	27.3	18.9
Germany	2007	748	65.9	10.1	20.0	3.4	0.6	65.9	69.6	62.7
	2011	569	46.2	15.1	35.4	2.0	1.4	46.2	48.0	44.4
Hong Kong SAR	2007	543	76.0	5.7	17.2	1.1	0.0	76.0	81.0	71.8
	2011	561	61.4	6.1	31.9	0.6	0.0	61.4	71.2	52.6
Hungary	2007	574	57.3	16.4	23.1	2.1	1.1	57.3	65.8	48.4
	2011	740	40.2	10.5	43.5	2.3	3.5	40.2	40.4	39.9
Iran, Islamic Rep. of	2007	542	48.7	15.7	25.9	8.5	1.2	48.7	57.3	40.4
	2011	824	39.5	21.1	29.5	6.1	3.8	39.5	41.9	37.2
Italy	2007	635	58.3	11.2	22.8	6.4	1.3	58.3	61.8	55.2
	2011	601	61.4	8.8	26.5	2.1	1.1	61.4	64.3	58.4
Japan	2007	632	86.3	3.1	10.2	0.4	0.0	86.3	88.1	84.6
	2011	634	80.3	5.4	13.1	0.7	0.5	80.3	80.7	80.0
Kuwait	2007	534	15.5	26.4	47.5	7.1	3.5	15.5	19.1	11.8
	2011	587	16.6	23.8	50.5	5.5	3.7	16.6	22.9	9.1
Lithuania	2007	561	68.8	13.2	16.3	1.6	0.2	68.8	74.2	64.0
	2011	693	62.5	11.9	23.7	1.5	0.4	62.5	65.1	60.2
Netherlands	2007	481	34.0	20.1	44.7	1.3	0.0	34.0	30.8	37.0
	2011	467	35.3	13.4	49.5	1.3	0.4	35.3	35.0	35.6
New Zealand	2007	711	42.2	13.2	39.6	4.1	0.9	42.2	49.2	35.6
	2011	804	44.0	13.6	39.5	1.3	1.6	44.0	47.7	40.6
Norway	2007	570	39.6	15.3	40.4	2.9	1.7	39.6	48.0	30.7
	2011	445	31.1	17.5	47.3	2.2	1.9	31.1	31.5	30.4
Russian Federation	2007	638	59.0	11.6	25.2	4.1	0.1	59.0	59.4	58.6
	2011	644	66.1	12.2	18.5	2.4	0.8	66.1	71.5	60.8
Singapore	2007	723	49.3	9.8	40.7	0.3	0.0	49.3	49.2	49.3
	2011	906	50.4	10.1	38.9	0.6	0.1	50.4	51.5	49.3
Slovak Republic	2007	716	53.7	12.6	27.7	5.0	1.0	53.7	55.5	51.8
	2011	803	57.0	13.0	27.4	1.8	0.8	57.0	58.3	55.7
Slovenia	2007	619	70.0	10.6	16.7	2.3	0.3	70.0	72.2	68.0
	2011	637	69.4	9.4	17.1	3.0	1.1	69.4	70.6	68.4

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

S09_09B (S041134B): Physical Science / Reasoning
Label: 1 or 3 dissolves the candy fastest - Points: 1

COUNTRY	YEAR	N	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007									
	2011	686	48.3	16.2	32.1	2.0	1.4	48.3	48.6	48.0
Tunisia	2007	590	23.3	19.8	44.5	7.5	5.0	23.3	30.7	16.0
	2011	693	20.0	21.2	43.3	4.7	10.7	20.0	23.0	17.7
United States	2007	1131	48.1	9.1	41.9	0.8	0.1	48.1	50.2	46.1
	2011	1785	45.0	11.3	41.5	1.6	0.7	45.0	45.6	44.4
International Avg. (25)	2007	15114	52.0	12.9	30.1	4.1	1.0	52.0	55.8	48.4
	2011	17638	49.3	13.1	33.0	2.9	1.8	49.3	52.2	46.5
Alberta, Canada	2007	590	67.1	8.8	22.7	1.3	0.1	67.1	72.5	62.5
	2011	518	65.8	8.3	22.0	2.1	1.8	65.8	66.0	65.6
Ontario, Canada	2007	507	70.7	9.5	18.2	1.1	0.5	70.7	75.6	65.6
	2011	639	65.4	12.9	17.9	2.4	1.4	65.4	64.7	66.1
Quebec, Canada	2007	557	63.0	11.9	21.2	3.6	0.3	63.0	66.3	59.2
	2011	614	59.9	14.4	20.2	4.5	1.0	59.9	65.0	55.4
Dubai, UAE	2007	433	46.2	16.6	30.6	5.9	0.7	46.2	50.0	42.9
	2011	870	36.5	20.4	38.7	2.9	1.4	36.5	31.4	40.7

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

S09_10 (S041191): Physical Science / Knowing
Label: Materials and heat conduction - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	578	44.4	29.1	44.4	12.3	11.2	1.1	1.8	42.3	46.4
	2011	877	40.7	33.5	40.7	10.3	10.6	2.9	2.0	40.3	41.2
Austria	2007	688	44.3	31.5	44.3	6.4	16.5	1.2	0.2	38.2	50.7
	2011	672	41.7	37.1	41.7	6.0	13.7	1.1	0.4	33.7	49.7
Chinese Taipei	2007	590	72.4	13.9	72.4	5.6	7.3	0.7	0.0	68.6	76.1
	2011	614	68.8	17.1	68.8	6.3	7.2	0.2	0.3	67.5	69.9
Czech Republic	2007	611	22.7	60.5	22.7	5.4	9.5	1.2	0.8	17.6	26.2
	2011	647	21.2	64.3	21.2	6.7	5.7	1.3	0.8	16.5	25.6
Denmark	2007	504	42.2	31.0	42.2	13.7	9.2	1.0	2.9	40.2	44.3
	2011	580	43.1	31.3	43.1	8.2	12.2	1.9	3.4	42.2	44.1
England	2007	623	53.2	20.4	53.2	12.2	13.2	0.7	0.2	49.0	57.2
	2011	481	48.1	23.3	48.1	13.3	11.8	1.1	2.4	41.4	53.9
Georgia	2007	571	30.6	17.4	30.6	28.2	15.4	3.4	5.0	29.7	31.3
	2011	690	46.2	13.4	46.2	18.3	16.7	1.8	3.6	45.3	47.0
Germany	2007	748	47.6	25.7	47.6	10.4	13.8	1.6	0.9	45.1	49.8
	2011	569	43.9	30.1	43.9	10.8	11.9	1.3	2.0	41.5	46.2
Hong Kong SAR	2007	543	92.5	3.1	92.5	1.2	2.8	0.4	0.0	93.4	91.7
	2011	561	89.2	5.1	89.2	2.8	2.8	0.1	0.0	88.6	89.8
Hungary	2007	574	48.2	18.6	48.2	21.2	8.6	2.2	1.2	46.1	50.3
	2011	739	39.5	30.6	39.5	14.8	9.7	1.1	4.4	34.4	43.9
Iran, Islamic Rep. of	2007	542	27.8	13.2	27.8	33.1	21.1	1.9	2.8	29.4	26.4
	2011	824	25.1	17.0	25.1	30.2	20.6	2.1	5.0	23.7	26.5
Italy	2007	635	45.7	33.8	45.7	6.6	8.2	3.3	2.4	45.1	46.3
	2011	601	44.7	38.7	44.7	5.9	7.1	1.8	1.8	46.4	43.0
Japan	2007	632	79.9	13.2	79.9	1.9	4.3	0.4	0.2	79.7	80.2
	2011	634	78.1	14.0	78.1	2.2	5.1	0.0	0.6	78.3	77.8
Kuwait	2007	534	24.7	28.9	24.7	25.7	11.8	4.5	4.4	23.4	26.1
	2011	581	33.8	22.2	33.8	17.3	15.4	7.4	3.8	32.1	35.9
Lithuania	2007	561	29.7	38.5	29.7	16.6	13.0	1.5	0.7	29.5	29.9
	2011	693	36.8	35.9	36.8	14.4	11.8	0.8	0.4	37.3	36.3
Netherlands	2007	481	35.7	32.0	35.7	15.4	16.3	0.5	0.2	34.3	37.0
	2011	467	35.1	32.1	35.1	15.5	16.1	0.7	0.7	33.1	36.9
New Zealand	2007	711	40.9	26.7	40.9	12.0	17.5	1.7	1.2	39.9	41.9
	2011	804	26.3	47.2	26.3	12.7	11.3	0.7	1.7	25.9	26.6
Norway	2007	570	36.8	36.2	36.8	14.7	9.3	0.7	2.4	36.0	37.7
	2011	445	36.8	37.5	36.8	10.3	11.8	0.8	2.9	32.6	42.3
Russian Federation	2007	638	59.1	19.1	59.1	12.2	8.2	0.8	0.6	57.8	60.5
	2011	644	56.9	19.3	56.9	14.6	7.3	0.9	1.0	55.3	58.4
Singapore	2007	723	91.6	2.6	91.6	2.7	3.1	0.0	0.0	90.9	92.3
	2011	906	92.0	3.8	92.0	1.5	2.4	0.0	0.2	90.2	93.7
Slovak Republic	2007	716	44.4	36.7	44.4	8.9	7.9	0.9	1.2	37.9	51.2
	2011	803	41.5	42.6	41.5	8.7	5.3	1.1	0.8	38.7	44.2
Slovenia	2007	619	49.7	26.2	49.7	9.8	12.2	1.7	0.5	48.6	50.7
	2011	637	48.4	25.8	48.4	12.9	9.8	1.2	1.8	41.4	54.4

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

S09_10 (S041191): Physical Science / Knowing
Label: Materials and heat conduction - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	42.7	35.2	42.7	11.4	8.7	0.5	1.5	36.3	49.9
	2011	686	41.8	41.4	41.8	5.5	7.9	1.1	2.3	40.6	43.2
Tunisia	2007	591	44.2	12.3	44.2	13.7	12.5	11.1	6.1	42.6	45.8
	2011	685	38.4	15.2	38.4	15.9	11.6	6.8	12.2	36.9	39.6
United States	2007	1131	49.6	32.5	49.6	6.3	10.5	0.8	0.4	50.1	49.1
	2011	1785	41.9	39.3	41.9	7.7	8.1	1.2	1.8	37.6	45.8
International Avg. (25)	2007	15773	48.0	25.5	48.0	12.3	10.9	1.8	1.5	46.1	50.0
	2011	17625	46.4	28.7	46.4	10.9	10.2	1.6	2.3	44.1	48.6
Alberta, Canada	2007	590	43.3	37.7	43.3	11.9	6.1	0.4	0.6	42.3	44.2
	2011	518	31.0	45.0	31.0	11.9	6.9	2.2	2.9	29.8	32.2
Ontario, Canada	2007	507	36.1	37.9	36.1	13.7	11.3	0.5	0.5	34.8	37.4
	2011	639	29.0	44.5	29.0	12.7	9.3	1.3	3.2	27.5	30.5
Quebec, Canada	2007	557	39.4	45.7	39.4	7.6	6.6	0.4	0.4	42.7	35.5
	2011	615	36.4	43.7	36.4	7.1	10.3	1.3	1.2	31.8	40.5
Dubai, UAE	2007	432	45.6	27.3	45.6	12.0	11.5	2.2	1.4	45.8	45.2
	2011	870	41.4	26.6	41.4	16.1	12.3	2.1	1.7	40.8	41.8

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

S09_11 (S041107): Earth Science / Knowing
Label: Two planets orbit the sun - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	76.9	10.8	4.6	5.6	2.1	87.7	76.9	72.8	80.6
	2011	877	72.5	13.9	8.0	3.6	2.1	86.3	72.5	73.7	71.3
Austria	2007	688	64.2	17.1	8.3	10.2	0.2	81.3	64.2	64.3	64.0
	2011	672	63.7	15.4	9.7	10.8	0.4	79.1	63.7	65.0	62.3
Chinese Taipei	2007	590	52.3	17.5	18.6	11.6	0.0	69.8	52.3	45.2	59.2
	2011	614	56.7	15.3	18.8	8.9	0.3	72.0	56.7	54.4	58.7
Czech Republic	2007	611	60.4	9.2	10.7	18.9	0.8	69.6	60.4	57.0	62.7
	2011	647	68.2	13.9	6.7	10.1	1.1	82.1	68.2	67.9	68.5
Denmark	2007	505	53.0	20.5	12.8	10.4	3.2	73.5	53.0	49.2	57.0
	2011	580	57.8	19.9	12.1	6.7	3.6	77.7	57.8	56.3	59.4
England	2007	623	66.6	17.1	10.9	5.0	0.3	83.8	66.6	61.9	71.1
	2011	481	66.0	16.1	10.8	4.5	2.6	82.1	66.0	67.3	64.8
Georgia	2007	571	38.0	7.8	20.2	27.8	6.2	45.8	38.0	37.9	38.1
	2011	690	63.5	8.5	8.2	15.8	4.0	72.0	63.5	66.2	61.2
Germany	2007	748	55.8	22.4	10.5	10.4	0.9	78.2	55.8	53.2	58.1
	2011	569	57.9	19.3	11.0	9.3	2.5	77.2	57.9	52.6	62.9
Hong Kong SAR	2007	543	75.0	14.0	6.2	4.5	0.3	89.0	75.0	71.8	77.7
	2011	561	64.9	19.3	11.4	4.4	0.0	84.1	64.9	60.5	68.9
Hungary	2007	574	58.3	15.4	13.1	11.7	1.4	73.8	58.3	60.8	55.7
	2011	740	68.5	12.1	7.7	7.0	4.7	80.6	68.5	69.8	67.4
Iran, Islamic Rep. of	2007	542	38.7	11.5	29.9	16.6	3.3	50.3	38.7	40.2	37.3
	2011	824	72.1	6.8	10.0	5.4	5.6	78.9	72.1	76.5	67.8
Italy	2007	635	61.5	7.5	8.3	20.2	2.5	69.0	61.5	59.1	63.7
	2011	601	64.6	13.7	7.8	11.7	2.2	78.3	64.6	62.9	66.3
Japan	2007	632	62.0	16.8	16.1	5.0	0.2	78.8	62.0	56.8	67.1
	2011	634	56.7	22.0	15.8	4.8	0.6	78.7	56.7	51.0	62.6
Kuwait	2007	534	21.2	17.5	34.9	20.0	6.3	38.7	21.2	22.8	19.6
	2011	587	35.1	13.4	34.4	11.7	5.4	48.5	35.1	39.4	30.1
Lithuania	2007	561	68.5	9.6	8.2	12.8	0.9	78.1	68.5	72.3	65.2
	2011	693	67.9	14.2	9.3	8.2	0.4	82.1	67.9	65.8	69.7
Netherlands	2007	481	52.5	28.2	16.7	2.1	0.5	80.8	52.5	51.4	53.6
	2011	467	71.0	20.8	5.9	1.5	0.9	91.7	71.0	69.4	72.5
New Zealand	2007	711	72.4	12.2	9.1	4.8	1.4	84.7	72.4	72.9	71.9
	2011	804	69.3	16.8	9.2	2.8	1.9	86.2	69.3	66.2	72.1
Norway	2007	570	70.5	15.3	5.9	6.0	2.4	85.8	70.5	71.5	69.4
	2011	445	70.4	12.4	6.8	7.3	3.1	82.8	70.4	68.0	73.6
Russian Federation	2007	638	74.8	6.9	7.8	9.6	0.9	81.7	74.8	72.3	77.7
	2011	644	77.7	9.0	3.9	8.3	1.1	86.7	77.7	78.1	77.2
Singapore	2007	723	64.5	16.1	17.6	1.7	0.0	80.6	64.5	61.1	67.7
	2011	906	55.3	22.2	20.3	1.9	0.2	77.6	55.3	54.1	56.5
Slovak Republic	2007	716	83.5	4.4	4.5	6.0	1.6	87.9	83.5	86.2	80.8
	2011	803	84.0	5.6	5.1	4.5	0.9	89.5	84.0	81.1	86.7
Slovenia	2007	619	53.5	17.4	19.1	9.2	0.7	70.9	53.5	51.0	55.8
	2011	637	47.0	17.7	17.7	15.7	1.8	64.7	47.0	41.5	51.7

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

S09_11 (S041107): Earth Science / Knowing
Label: Two planets orbit the sun - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	68.2	13.0	5.6	11.6	1.6	81.1	68.2	68.2	68.1
	2011	686	69.0	15.5	5.4	7.7	2.3	84.5	69.0	71.1	66.7
Tunisia	2007	591	20.6	11.2	37.5	23.6	7.2	31.7	20.6	19.1	22.0
	2011	693	15.0	12.3	42.0	18.0	12.8	27.3	15.0	15.6	14.5
United States	2007	1131	82.3	8.4	6.5	2.2	0.6	90.7	82.3	80.8	83.8
	2011	1785	77.4	12.6	6.1	2.0	1.9	90.0	77.4	75.0	79.7

International Avg. (25)	2007	15775	59.8	13.9	13.7	10.7	1.8	73.7	59.8	58.4	61.1
	2011	17640	62.9	14.7	12.2	7.7	2.5	77.6	62.9	62.0	63.7

Alberta, Canada	2007	590	69.9	18.3	6.2	5.0	0.6	88.2	69.9	69.6	70.2
	2011	518	61.2	22.8	9.7	3.4	2.9	84.0	61.2	58.4	63.8
Ontario, Canada	2007	507	72.4	13.8	4.8	8.5	0.5	86.2	72.4	72.1	72.7
	2011	639	66.5	17.8	7.7	4.2	3.8	84.3	66.5	63.5	69.6
Quebec, Canada	2007	557	77.4	11.0	6.5	4.7	0.4	88.4	77.4	72.8	82.8
	2011	613	72.9	14.9	7.1	3.6	1.5	87.8	72.9	68.9	76.4
Dubai, UAE	2007	433	67.9	8.4	12.1	9.5	2.1	76.3	67.9	69.6	66.3
	2011	870	65.9	12.4	13.6	6.2	1.8	78.4	65.9	63.6	67.9

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

S09_12 (S041113): Earth Science / Reasoning
Label: Why shadows changed - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	579	54.1	40.7	2.8	2.4	54.1	48.1	59.8
	2011	877	53.6	39.4	4.2	2.8	53.6	54.5	52.7
Austria	2007	688	37.5	50.5	9.8	2.2	37.5	35.7	39.4
	2011	672	43.7	47.2	6.4	2.7	43.7	38.5	48.8
Chinese Taipei	2007	590	74.2	20.6	4.1	1.0	74.2	71.8	76.6
	2011	614	51.3	45.2	2.4	1.2	51.3	52.0	50.6
Czech Republic	2007	611	42.3	44.9	10.0	2.8	42.3	37.5	45.5
	2011	647	39.4	54.6	4.2	1.9	39.4	35.0	43.6
Denmark	2007	505	56.0	36.5	3.0	4.4	56.0	56.9	55.1
	2011	580	52.9	40.0	3.0	4.1	52.9	52.0	53.9
England	2007	623	57.0	39.3	2.3	1.4	57.0	57.0	57.0
	2011	481	35.0	58.9	2.8	3.2	35.0	35.4	34.7
Georgia	2007	571	29.6	39.8	18.0	12.6	29.6	32.7	27.4
	2011	688	27.0	49.1	14.7	9.2	27.0	27.8	26.4
Germany	2007	748	51.8	41.0	5.4	1.9	51.8	48.3	54.7
	2011	569	31.5	58.9	6.2	3.3	31.5	29.7	33.2
Hong Kong SAR	2007	543	75.3	19.8	3.8	1.2	75.3	77.3	73.5
	2011	561	52.2	42.8	4.1	0.8	52.2	53.6	51.0
Hungary	2007	574	47.1	45.1	5.3	2.6	47.1	45.7	48.5
	2011	739	36.4	53.8	4.5	5.4	36.4	33.7	38.7
Iran, Islamic Rep. of	2007	542	21.6	60.9	10.7	6.8	21.6	15.5	27.4
	2011	824	20.7	57.4	14.7	7.3	20.7	17.6	23.7
Italy	2007	635	37.1	50.6	7.1	5.2	37.1	33.7	40.1
	2011	601	30.2	61.2	5.2	3.4	30.2	27.1	33.5
Japan	2007	632	35.9	61.9	1.5	0.6	35.9	36.5	35.4
	2011	634	81.2	17.1	0.5	1.3	81.2	77.9	84.6
Kuwait	2007	534	15.9	57.2	14.5	12.4	15.9	20.8	11.0
	2011	586	11.1	64.1	16.2	8.6	11.1	11.7	10.4
Lithuania	2007	561	51.1	40.9	5.4	2.6	51.1	47.5	54.3
	2011	693	33.3	62.8	2.8	1.1	33.3	33.2	33.5
Netherlands	2007	481	46.1	51.9	1.4	0.6	46.1	44.7	47.4
	2011	467	37.0	60.4	1.3	1.3	37.0	32.7	41.1
New Zealand	2007	711	41.8	53.0	3.0	2.2	41.8	38.5	44.9
	2011	804	37.0	57.0	3.4	2.6	37.0	35.7	38.2
Norway	2007	570	38.8	51.9	5.7	3.6	38.8	34.3	43.6
	2011	445	25.3	64.3	6.3	4.0	25.3	24.4	26.5
Russian Federation	2007	638	42.3	48.8	6.7	2.2	42.3	41.7	43.0
	2011	644	47.3	45.5	4.5	2.6	47.3	47.2	47.4
Singapore	2007	723	75.2	24.2	0.4	0.1	75.2	74.7	75.7
	2011	906	75.8	23.1	0.4	0.7	75.8	76.4	75.2
Slovak Republic	2007	716	42.3	47.8	6.7	3.2	42.3	41.1	43.6
	2011	803	33.1	59.0	6.0	1.9	33.1	28.4	37.7
Slovenia	2007	619	58.8	35.0	3.5	2.7	58.8	54.9	62.4
	2011	637	42.8	48.8	5.2	3.2	42.8	38.9	46.1

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

S09_12 (S041113): Earth Science / Reasoning
Label: Why shadows changed - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	659	57.3	34.6	4.7	3.4	57.3	54.6	60.3
	2011	686	34.6	56.6	5.6	3.2	34.6	36.6	32.2
Tunisia	2007	590	12.7	55.2	16.7	15.4	12.7	13.1	12.4
	2011	693	8.7	60.2	12.1	19.0	8.7	9.2	8.3
United States	2007	1131	34.6	61.7	3.0	0.7	34.6	33.6	35.6
	2011	1785	38.6	56.8	2.4	2.2	38.6	35.2	41.8

International Avg. (25)	2007	15774	45.5	44.5	6.2	3.8	45.5	43.9	47.0
	2011	17636	39.2	51.4	5.6	3.9	39.2	37.8	40.6

Alberta, Canada	2007	590	53.0	43.7	1.6	1.7	53.0	54.9	51.3
	2011	518	57.5	37.5	1.3	3.7	57.5	53.8	60.9
Ontario, Canada	2007	507	42.6	53.6	2.4	1.4	42.6	47.6	37.4
	2011	639	45.7	46.3	3.1	4.8	45.7	42.5	49.1
Quebec, Canada	2007	557	51.9	44.8	2.2	1.1	51.9	47.7	56.8
	2011	614	49.0	45.6	2.8	2.5	49.0	49.7	48.4
Dubai, UAE	2007	433	37.4	47.8	10.5	4.3	37.4	43.7	31.7
	2011	870	23.9	63.7	8.5	3.9	23.9	21.9	25.6

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

S11_01 (S041027): Life Science / Knowing
Label: Ecosystem and name of animal - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	96.6	3.0	0.3	0.2	96.6	97.2	95.9
	2011	885	94.4	4.4	1.0	0.1	94.4	96.8	92.3
Austria	2007	698	92.2	6.5	1.2	0.1	92.2	92.2	92.2
	2011	660	92.8	6.8	0.5	0.0	92.8	92.7	92.8
Chinese Taipei	2007	593	89.0	10.9	0.1	0.0	89.0	87.2	90.6
	2011	609	94.5	5.2	0.3	0.0	94.5	93.6	95.2
Czech Republic	2007	604	95.6	4.0	0.4	0.0	95.6	95.6	95.6
	2011	646	96.8	3.1	0.1	0.0	96.8	96.8	96.8
Denmark	2007	510	88.1	10.4	1.0	0.5	88.1	91.1	85.4
	2011	562	90.6	8.1	1.3	0.0	90.6	90.9	90.2
England	2007	622	95.0	4.7	0.3	0.0	95.0	95.3	94.6
	2011	496	94.6	5.0	0.3	0.0	94.6	95.7	93.6
Georgia	2007	595	72.7	22.1	4.4	0.7	72.7	73.7	71.9
	2011	684	84.2	13.2	2.2	0.4	84.2	86.5	82.1
Germany	2007	719	93.2	6.8	0.0	0.0	93.2	93.5	93.0
	2011	567	93.6	5.5	0.6	0.4	93.6	95.2	92.1
Hong Kong SAR	2007	537	93.2	6.6	0.2	0.0	93.2	91.4	94.9
	2011	563	96.4	3.3	0.2	0.0	96.4	95.0	97.5
Hungary	2007	583	93.7	5.5	0.7	0.1	93.7	93.0	94.3
	2011	752	95.2	3.7	0.6	0.5	95.2	95.5	94.9
Iran, Islamic Rep. of	2007	533	69.5	28.4	1.5	0.6	69.5	69.6	69.4
	2011	819	77.6	20.8	1.0	0.7	77.6	77.2	78.1
Italy	2007	641	89.2	9.5	1.3	0.0	89.2	88.8	89.6
	2011	598	86.5	13.0	0.3	0.1	86.5	84.7	88.6
Japan	2007	641	97.9	1.8	0.0	0.3	97.9	96.8	99.0
	2011	624	96.6	3.4	0.0	0.0	96.6	96.2	97.0
Kuwait	2007	536	36.5	57.1	5.8	0.6	36.5	32.9	40.4
	2011	593	41.5	52.4	5.3	0.8	41.5	44.9	37.4
Lithuania	2007	579	93.7	5.8	0.6	0.0	93.7	91.4	96.4
	2011	657	96.2	3.4	0.4	0.0	96.2	93.5	98.4
Netherlands	2007	472	95.0	4.7	0.3	0.0	95.0	95.9	94.2
	2011	459	94.3	5.3	0.4	0.0	94.3	93.5	95.2
New Zealand	2007	723	93.0	6.2	0.9	0.0	93.0	94.5	91.4
	2011	800	93.6	5.6	0.6	0.3	93.6	93.6	93.6
Norway	2007	596	90.4	8.5	0.7	0.3	90.4	91.2	89.5
	2011	440	92.9	6.2	0.9	0.0	92.9	93.7	92.2
Russian Federation	2007	643	84.9	14.5	0.6	0.0	84.9	81.0	88.7
	2011	645	85.4	14.5	0.1	0.0	85.4	82.9	87.9
Singapore	2007	730	95.3	4.7	0.0	0.0	95.3	96.6	93.8
	2011	915	94.1	5.3	0.5	0.0	94.1	93.0	95.2
Slovak Republic	2007	706	90.6	8.8	0.4	0.1	90.6	90.2	91.1
	2011	814	91.5	8.0	0.3	0.2	91.5	92.4	90.8
Slovenia	2007	630	78.6	21.0	0.4	0.0	78.6	74.9	81.9
	2011	644	82.4	15.8	1.7	0.1	82.4	83.7	81.2

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

S11_01 (S041027): Life Science / Knowing
Label: Ecosystem and name of animal - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	92.3	7.2	0.5	0.0	92.3	93.3	91.3
	2011	632	95.3	4.0	0.6	0.0	95.3	96.3	94.4
Tunisia	2007	589	45.5	51.0	2.6	0.8	45.5	47.2	44.0
	2011	690	48.3	46.8	2.1	2.7	48.3	46.9	49.7
United States	2007	1131	96.0	3.5	0.5	0.0	96.0	95.3	96.6
	2011	1776	97.0	2.3	0.5	0.2	97.0	96.7	97.4

International Avg. (25)	2007	15867	86.3	12.5	1.0	0.2	86.3	86.0	86.6
	2011	17530	88.3	10.6	0.9	0.3	88.3	88.3	88.2

Alberta, Canada	2007	577	95.1	3.2	1.6	0.0	95.1	95.8	94.5
	2011	527	95.7	1.8	2.2	0.4	95.7	95.1	96.3
Ontario, Canada	2007	492	95.8	3.8	0.4	0.0	95.8	96.3	95.2
	2011	657	95.4	2.4	1.4	0.7	95.4	94.1	96.7
Quebec, Canada	2007	567	93.5	6.1	0.4	0.1	93.5	91.7	95.4
	2011	610	95.8	3.3	0.9	0.0	95.8	95.8	95.8
Dubai, UAE	2007	453	80.9	16.4	2.7	0.0	80.9	79.3	82.3
	2011	870	83.7	15.5	0.5	0.3	83.7	88.7	79.4

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

S11_02 (S041043): Life Science / Knowing

Label: How to protect teeth from decay - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	15.0	33.9	4.5	2.8	37.8	5.9	0.2	56.2	58.5	53.9
	2011	885	11.0	35.9	3.7	4.4	36.9	7.8	0.3	55.1	61.1	49.7
Austria	2007	698	41.1	15.3	9.1	0.7	18.8	14.9	0.1	66.2	68.6	64.0
	2011	660	37.9	20.6	9.0	1.0	19.1	12.3	0.0	68.6	72.4	65.5
Chinese Taipei	2007	593	25.0	34.4	15.1	0.6	17.5	7.5	0.0	75.0	77.9	72.6
	2011	609	23.7	40.4	13.5	0.4	15.1	6.8	0.0	78.1	86.2	71.2
Czech Republic	2007	604	41.2	14.0	7.1	1.1	24.9	11.6	0.0	63.5	71.7	55.7
	2011	646	39.1	26.8	6.1	0.2	18.0	9.8	0.0	72.1	76.9	68.1
Denmark	2007	510	30.6	23.3	6.6	5.4	22.0	11.6	0.5	65.9	69.3	62.9
	2011	562	29.0	23.9	6.5	2.3	29.7	8.1	0.5	61.7	61.6	61.8
England	2007	622	22.0	27.0	3.3	3.1	34.4	10.2	0.0	55.3	57.1	53.5
	2011	496	20.5	33.0	1.5	3.4	33.2	8.4	0.0	58.4	60.6	56.2
Georgia	2007	595	8.9	7.1	4.4	13.8	29.2	35.9	0.7	34.2	42.5	27.0
	2011	684	22.5	8.3	6.5	6.2	32.0	23.7	0.9	43.4	47.9	39.2
Germany	2007	719	46.4	16.0	9.1	0.3	17.0	11.2	0.0	71.7	76.6	66.8
	2011	567	42.3	18.3	7.6	0.2	18.9	12.4	0.4	68.4	71.1	65.9
Hong Kong SAR	2007	537	28.7	37.5	12.0	3.2	16.7	2.0	0.0	81.3	81.6	81.1
	2011	563	21.7	27.4	18.6	5.2	24.5	2.7	0.0	72.9	73.6	72.3
Hungary	2007	583	44.1	10.5	11.1	3.2	18.5	12.5	0.1	68.9	72.0	66.0
	2011	752	43.7	17.0	5.1	1.2	24.3	8.0	0.7	66.9	68.8	64.8
Iran, Islamic Rep. of	2007	533	33.1	19.2	1.0	5.1	24.2	16.5	0.9	58.5	63.8	53.0
	2011	819	31.4	18.9	3.4	9.3	20.3	15.9	0.8	63.1	69.4	56.8
Italy	2007	641	34.5	17.0	6.8	2.1	27.5	12.0	0.0	60.5	63.8	57.5
	2011	598	33.1	21.8	5.2	1.2	27.2	11.1	0.4	61.3	63.7	58.6
Japan	2007	641	29.6	18.8	5.6	3.5	38.8	3.4	0.3	57.5	56.0	58.9
	2011	624	35.0	18.6	3.9	5.3	35.3	2.0	0.0	62.7	61.7	63.6
Kuwait	2007	536	10.6	13.9	3.2	6.7	14.6	50.2	0.7	34.5	47.2	21.0
	2011	591	16.2	10.5	2.6	3.4	22.4	43.7	1.2	32.7	42.7	20.5
Lithuania	2007	579	42.0	15.9	7.8	5.3	22.3	6.6	0.0	71.1	70.9	71.4
	2011	657	32.7	23.6	5.8	0.5	30.2	7.3	0.0	62.6	65.0	60.6
Netherlands	2007	472	30.8	29.4	8.4	0.9	25.8	4.7	0.0	69.5	76.8	62.8
	2011	459	30.4	32.5	9.4	1.1	20.6	5.9	0.0	73.6	75.9	71.6
New Zealand	2007	723	15.6	31.6	3.0	0.4	40.9	8.3	0.2	50.6	55.5	45.4
	2011	800	12.7	30.1	3.4	0.3	45.7	7.6	0.3	46.5	47.2	45.7
Norway	2007	596	21.3	43.5	2.3	0.9	23.6	8.1	0.3	67.9	70.7	64.7
	2011	440	19.2	51.7	2.4	0.6	20.1	5.9	0.0	73.9	79.5	68.8
Russian Federation	2007	643	26.9	13.7	14.3	3.4	32.6	9.0	0.0	58.4	65.2	51.7
	2011	645	29.8	29.5	12.8	7.9	12.6	7.5	0.0	80.0	80.0	80.0
Singapore	2007	730	29.2	32.7	10.6	0.9	24.3	2.4	0.0	73.3	79.6	66.6
	2011	915	28.8	35.8	5.0	4.0	24.1	2.3	0.0	73.6	78.4	69.0
Slovak Republic	2007	706	44.8	6.5	8.0	3.2	29.0	8.3	0.1	62.6	65.2	59.9
	2011	814	44.1	16.1	4.9	1.4	24.3	9.1	0.2	66.5	71.5	62.0
Slovenia	2007	630	27.1	8.7	21.3	6.3	32.1	4.5	0.0	63.4	67.5	59.9
	2011	644	25.9	11.1	21.0	8.1	26.3	7.5	0.1	66.1	71.6	60.7

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

S11_02 (S041043): Life Science / Knowing

Label: How to protect teeth from decay - Points: 1

COUNTRY	YEAR	N	10 %	11 %	12 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	22.6	39.3	2.8	1.0	26.5	7.8	0.0	65.7	68.7	62.7
	2011	632	20.7	40.5	1.4	0.7	25.3	11.4	0.0	63.3	65.4	61.5
Tunisia	2007	589	19.7	6.1	3.9	3.6	37.9	27.9	1.0	33.3	36.8	30.1
	2011	690	15.5	20.4	3.4	4.1	27.8	25.0	3.8	43.4	49.6	37.6
United States	2007	1131	11.0	54.2	2.8	1.5	24.3	6.3	0.0	69.4	71.6	67.3
	2011	1776	9.9	56.1	2.1	2.2	24.7	4.7	0.2	70.4	71.4	69.3

International Avg. (25)	2007	15867	28.1	22.8	7.4	3.2	26.4	12.0	0.2	61.4	65.4	57.5
	2011	17528	27.1	26.8	6.6	3.0	25.5	10.7	0.4	63.4	66.9	60.0

Alberta, Canada	2007	577	9.2	51.6	2.8	6.8	20.0	9.6	0.0	70.3	74.1	66.7
	2011	527	12.4	47.2	2.9	4.8	26.6	5.8	0.4	67.2	69.7	64.7
Ontario, Canada	2007	492	11.3	54.5	4.0	2.9	24.1	3.2	0.0	72.7	74.9	70.5
	2011	656	15.2	45.9	2.2	5.6	24.5	5.6	1.0	68.9	70.4	67.5
Quebec, Canada	2007	567	24.8	30.4	8.2	6.6	19.6	10.4	0.1	70.0	75.3	64.3
	2011	610	25.3	35.2	3.7	3.4	24.5	7.9	0.0	67.6	71.1	64.1
Dubai, UAE	2007	453	20.9	17.9	4.3	2.8	29.1	24.9	0.1	45.9	48.5	43.7
	2011	870	16.8	22.2	4.6	3.2	39.6	13.2	0.4	46.8	52.0	42.5

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

S11_03 (S041050): Physical Science / Reasoning
Label: Classifying item - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	43.4	34.2	8.3	43.4	12.9	1.1	0.2	44.1	42.7
	2011	885	48.0	35.6	7.2	48.0	6.8	2.1	0.3	52.7	43.7
Austria	2007	698	57.6	18.3	7.4	57.6	7.2	9.4	0.1	59.1	56.3
	2011	660	53.5	17.0	8.0	53.5	9.4	12.1	0.0	53.0	53.9
Chinese Taipei	2007	593	59.4	19.3	10.8	59.4	8.4	2.1	0.0	58.4	60.3
	2011	609	68.7	15.0	6.5	68.7	7.6	2.2	0.1	72.0	65.8
Czech Republic	2007	604	45.7	12.8	12.7	45.7	19.3	9.6	0.0	43.9	47.3
	2011	646	54.8	13.8	10.8	54.8	14.9	5.7	0.0	52.0	57.0
Denmark	2007	496	48.1	35.9	8.4	48.1	3.9	3.2	0.5	45.7	50.2
	2011	562	41.6	33.0	6.5	41.6	9.1	9.3	0.5	44.2	38.7
England	2007	622	56.7	29.8	4.0	56.7	6.7	2.6	0.0	56.2	57.3
	2011	496	55.4	26.8	7.2	55.4	4.9	5.3	0.4	57.6	53.2
Georgia	2007	597	27.0	47.0	11.1	27.0	8.3	5.9	0.7	27.2	26.8
	2011	684	17.0	56.1	7.8	17.0	12.4	5.7	1.0	18.6	15.4
Germany	2007	719	53.3	15.3	7.2	53.3	8.2	15.3	0.6	52.7	53.9
	2011	567	53.9	15.7	8.3	53.9	10.1	11.7	0.4	51.6	56.0
Hong Kong SAR	2007	537	59.2	24.9	5.4	59.2	10.0	0.5	0.0	58.1	60.3
	2011	563	61.4	20.6	7.1	61.4	10.6	0.4	0.0	58.7	63.4
Hungary	2007	583	37.0	25.9	6.5	37.0	8.9	20.4	1.3	36.1	37.9
	2011	752	44.4	28.8	5.5	44.4	6.3	14.2	0.9	46.3	42.4
Iran, Islamic Rep. of	2007	534	16.6	41.3	26.9	16.6	10.5	3.7	0.9	20.5	12.6
	2011	819	16.0	44.8	25.8	16.0	8.4	3.8	1.2	17.3	14.7
Italy	2007	610	79.0	10.7	4.8	79.0	3.1	2.2	0.1	80.8	77.4
	2011	598	72.1	11.6	5.1	72.1	5.1	5.7	0.5	70.5	73.7
Japan	2007	641	78.6	10.0	4.4	78.6	3.6	3.1	0.3	77.8	79.3
	2011	624	82.1	6.6	5.2	82.1	2.8	3.4	0.0	80.6	83.3
Kuwait	2007	536	33.2	31.6	18.2	33.2	9.7	5.7	1.7	32.0	34.4
	2011	589	27.0	29.4	23.8	27.0	9.4	9.2	1.1	27.3	26.6
Lithuania	2007	579	50.9	23.1	7.1	50.9	9.7	9.3	0.0	51.3	50.4
	2011	657	58.3	17.6	7.8	58.3	8.5	7.1	0.7	61.5	55.7
Netherlands	2007	472	53.6	27.9	5.9	53.6	7.3	5.2	0.0	52.5	54.5
	2011	459	54.7	23.3	6.5	54.7	8.4	7.0	0.0	54.8	55.4
New Zealand	2007	723	52.1	28.4	7.3	52.1	8.0	4.0	0.2	53.6	50.5
	2011	800	48.7	34.8	4.7	48.7	8.9	2.6	0.4	54.1	43.2
Norway	2007	596	48.0	27.5	8.8	48.0	8.5	6.7	0.5	48.5	47.5
	2011	440	52.6	18.8	6.9	52.6	9.6	11.9	0.2	51.1	54.0
Russian Federation	2007	643	56.8	22.7	5.2	56.8	7.7	7.3	0.2	60.3	53.3
	2011	645	52.4	29.9	4.8	52.4	6.8	5.9	0.1	51.4	53.3
Singapore	2007	730	49.7	40.9	3.3	49.7	5.9	0.2	0.0	49.4	50.1
	2011	915	51.2	41.4	4.0	51.2	3.0	0.4	0.0	48.3	54.0
Slovak Republic	2007	706	51.5	28.6	5.4	51.5	8.8	5.5	0.1	53.0	50.0
	2011	814	59.2	25.9	3.8	59.2	8.2	2.8	0.2	58.9	59.5
Slovenia	2007	630	58.5	25.0	6.3	58.5	4.6	5.6	0.0	58.9	58.1
	2011	638	61.9	22.7	6.9	61.9	5.3	3.2	0.1	62.3	61.4

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

S11_03 (S041050): Physical Science / Reasoning
Label: Classifying item - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	56.5	25.1	8.4	56.5	6.1	3.8	0.1	60.0	53.0
	2011	632	50.7	26.0	8.5	50.7	9.4	5.0	0.3	49.6	51.6
Tunisia	2007	589	26.6	23.9	17.8	26.6	9.6	20.0	2.0	24.4	28.5
	2011	669	24.5	28.5	18.0	24.5	15.4	8.9	4.7	18.3	30.3
United States	2007	1131	47.3	34.8	6.7	47.3	10.8	0.5	0.0	46.4	48.1
	2011	1776	52.1	30.0	6.0	52.1	9.5	1.9	0.4	50.0	54.4
International Avg. (25)	2007	15825	49.9	26.6	8.7	49.9	8.3	6.1	0.4	50.0	49.6
	2011	17499	50.5	26.1	8.5	50.5	8.4	5.9	0.5	50.5	50.4
Alberta, Canada	2007	577	47.6	34.4	6.7	47.6	9.7	1.7	0.0	46.3	48.8
	2011	527	51.1	29.9	7.4	51.1	10.0	1.1	0.6	48.2	54.1
Ontario, Canada	2007	492	55.1	31.5	5.1	55.1	6.5	1.7	0.0	55.3	54.9
	2011	657	50.8	29.0	5.2	50.8	11.3	2.4	1.3	51.1	50.5
Quebec, Canada	2007	567	56.3	24.1	10.0	56.3	5.4	4.1	0.1	55.5	57.2
	2011	610	63.3	20.0	8.2	63.3	4.4	4.1	0.0	62.1	64.4
Dubai, UAE	2007	453	42.5	34.4	7.9	42.5	8.4	6.5	0.3	45.8	39.7
	2011	870	45.6	35.8	8.0	45.6	8.0	2.2	0.4	47.2	44.2

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

S11_04 (S041070): Physical Science / Applying
Label: Why shadow forms - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	59.9	59.9	10.0	17.2	11.8	1.0	0.2	56.0	63.9
	2011	885	61.9	61.9	10.1	17.0	9.0	1.6	0.4	61.1	62.6
Austria	2007	698	64.9	64.9	8.9	3.9	19.5	2.6	0.1	57.0	72.0
	2011	660	69.4	69.4	7.9	3.8	16.9	2.0	0.2	64.2	73.6
Chinese Taipei	2007	593	55.5	55.5	12.9	4.4	26.3	0.9	0.0	49.6	60.6
	2011	609	61.2	61.2	15.1	3.0	20.4	0.2	0.1	53.1	68.2
Czech Republic	2007	604	53.3	53.3	12.3	3.5	26.5	4.3	0.1	50.1	56.3
	2011	646	57.3	57.3	10.9	4.8	25.2	1.7	0.0	50.8	62.8
Denmark	2007	509	49.6	49.6	12.8	10.0	24.0	2.7	1.0	41.1	57.1
	2011	562	53.8	53.8	12.0	5.9	24.6	3.2	0.6	50.2	57.8
England	2007	622	75.5	75.5	9.5	7.7	6.1	1.0	0.4	71.2	80.0
	2011	496	68.3	68.3	9.2	12.9	7.2	1.8	0.7	68.6	67.9
Georgia	2007	597	33.4	33.4	22.0	25.7	13.0	5.2	0.7	29.9	36.4
	2011	684	30.9	30.9	26.3	26.9	11.7	2.9	1.3	26.9	34.8
Germany	2007	719	67.5	67.5	8.6	3.8	16.9	2.5	0.7	59.9	75.1
	2011	567	71.9	71.9	8.4	3.6	13.9	1.8	0.4	62.4	80.5
Hong Kong SAR	2007	537	49.8	49.8	11.7	3.3	35.1	0.1	0.0	42.0	57.8
	2011	563	49.7	49.7	12.1	3.2	34.7	0.3	0.0	44.8	53.4
Hungary	2007	583	60.4	60.4	12.6	9.2	13.8	2.6	1.3	50.6	69.4
	2011	752	62.2	62.2	12.5	12.0	10.8	1.6	1.0	58.7	66.0
Iran, Islamic Rep. of	2007	534	50.9	50.9	24.7	9.0	11.9	2.6	1.0	47.1	54.8
	2011	819	49.2	49.2	25.6	5.3	14.8	3.7	1.4	43.0	55.4
Italy	2007	637	44.8	44.8	16.9	10.9	24.1	3.1	0.1	42.2	47.2
	2011	598	42.9	42.9	18.7	11.6	24.4	1.9	0.5	39.6	46.6
Japan	2007	641	73.2	73.2	12.3	6.2	7.5	0.5	0.3	72.9	73.5
	2011	624	84.9	84.9	7.5	4.6	2.9	0.2	0.0	81.3	87.9
Kuwait	2007	536	17.4	17.4	19.8	16.7	36.0	8.3	1.7	14.9	20.2
	2011	585	22.9	22.9	27.9	13.3	25.3	9.2	1.4	23.6	22.0
Lithuania	2007	579	58.5	58.5	8.7	13.6	16.8	2.3	0.0	51.5	67.0
	2011	657	63.9	63.9	8.7	11.8	13.6	1.0	1.0	58.4	68.3
Netherlands	2007	472	57.5	57.5	7.4	12.2	21.5	1.4	0.0	49.1	65.3
	2011	459	66.1	66.1	5.2	10.4	17.7	0.6	0.0	59.8	74.4
New Zealand	2007	723	56.6	56.6	12.1	14.2	15.0	1.9	0.2	53.2	60.1
	2011	800	57.8	57.8	9.9	17.4	12.6	1.9	0.5	56.3	59.3
Norway	2007	596	45.0	45.0	13.8	15.6	23.0	2.1	0.6	42.3	48.1
	2011	440	43.1	43.1	13.6	16.1	22.7	4.2	0.3	38.6	47.3
Russian Federation	2007	643	66.4	66.4	5.7	8.8	16.8	1.5	0.9	59.4	73.4
	2011	645	68.9	68.9	5.4	8.9	15.0	1.6	0.1	65.0	72.9
Singapore	2007	730	81.6	81.6	10.8	3.1	4.4	0.1	0.0	81.5	81.6
	2011	915	85.5	85.5	9.2	2.5	2.5	0.2	0.1	84.8	86.2
Slovak Republic	2007	706	50.2	50.2	15.8	16.2	13.3	4.3	0.2	43.2	57.3
	2011	814	51.8	51.8	17.2	17.3	12.2	1.3	0.2	44.6	58.2
Slovenia	2007	630	34.8	34.8	44.8	9.9	9.0	1.2	0.2	22.9	45.3
	2011	643	38.2	38.2	45.8	7.1	5.5	3.0	0.3	32.4	44.0

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

S11_04 (S041070): Physical Science / Applying
Label: Why shadow forms - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	59.1	59.1	10.0	12.5	17.0	1.2	0.2	57.4	60.8
	2011	632	59.8	59.8	6.7	10.7	19.0	3.1	0.6	56.9	62.4
Tunisia	2007	589	14.4	14.4	20.4	23.2	22.7	17.2	2.1	14.0	14.8
	2011	683	15.6	15.6	18.0	25.5	26.6	8.5	5.8	16.2	15.0
United States	2007	1131	60.8	60.8	12.2	13.5	12.4	1.0	0.1	58.2	63.4
	2011	1776	64.7	64.7	8.6	13.1	10.6	2.5	0.5	60.3	69.5
International Avg. (25)	2007	15865	53.6	53.6	14.3	11.0	17.8	2.9	0.5	48.7	58.4
	2011	17514	56.1	56.1	14.1	10.8	16.0	2.4	0.7	52.1	59.9
Alberta, Canada	2007	577	69.6	69.6	7.8	8.8	12.8	0.8	0.2	64.9	74.3
	2011	527	64.2	64.2	9.4	12.2	12.7	1.0	0.6	63.1	65.2
Ontario, Canada	2007	492	61.9	61.9	12.5	12.4	12.7	0.4	0.1	60.2	63.6
	2011	657	59.9	59.9	13.5	8.0	15.2	1.3	2.1	50.0	69.4
Quebec, Canada	2007	567	49.3	49.3	14.3	10.6	24.2	1.6	0.1	37.7	61.7
	2011	610	45.0	45.0	8.8	16.9	27.4	1.9	0.1	35.0	54.9
Dubai, UAE	2007	453	47.9	47.9	16.1	11.8	19.4	4.4	0.3	46.1	49.5
	2011	870	49.2	49.2	16.0	13.8	18.1	2.5	0.4	41.9	55.3

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

S11_05 (S041006): Life Science / Applying
Label: A tree and lion are living - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	23.9	42.4	27.0	6.5	0.2	66.3	23.9	21.6	26.3
	2011	885	19.6	37.7	37.0	5.3	0.4	57.3	19.6	18.7	20.4
Austria	2007	698	13.9	38.7	31.1	16.2	0.1	52.5	13.9	9.6	17.7
	2011	660	13.3	30.9	40.4	15.2	0.2	44.2	13.3	12.6	13.9
Chinese Taipei	2007	593	31.8	37.6	20.4	10.2	0.0	69.4	31.8	33.1	30.7
	2011	609	32.7	35.6	25.0	6.7	0.1	68.3	32.7	32.6	32.8
Czech Republic	2007	604	38.0	28.5	20.7	12.7	0.1	66.5	38.0	39.9	36.2
	2011	646	33.7	35.2	18.6	12.1	0.5	68.9	33.7	33.0	34.3
Denmark	2007	509	20.7	33.6	33.1	11.6	1.0	54.4	20.7	18.8	22.4
	2011	561	17.3	38.4	35.2	8.4	0.6	55.7	17.3	15.7	19.2
England	2007	622	28.3	44.4	22.4	4.5	0.4	72.7	28.3	27.5	29.2
	2011	496	19.1	46.7	26.6	6.9	0.7	65.8	19.1	17.2	20.9
Georgia	2007	597	21.1	29.1	29.1	19.5	1.2	50.2	21.1	23.7	18.9
	2011	684	25.4	25.5	32.3	14.9	1.8	50.9	25.4	26.2	24.7
Germany	2007	719	20.7	28.1	37.7	12.8	0.7	48.7	20.7	20.7	20.7
	2011	567	10.0	31.1	42.3	16.2	0.4	41.1	10.0	7.8	12.0
Hong Kong SAR	2007	537	26.4	39.5	27.9	6.2	0.0	65.9	26.4	25.7	27.1
	2011	563	24.9	42.6	25.1	7.5	0.0	67.5	24.9	28.1	22.4
Hungary	2007	583	25.1	31.6	32.7	9.3	1.3	56.7	25.1	28.8	21.6
	2011	752	24.0	38.6	29.1	7.2	1.1	62.6	24.0	26.2	21.7
Iran, Islamic Rep. of	2007	534	27.1	26.9	33.0	12.0	1.0	54.0	27.1	28.7	25.4
	2011	818	30.5	31.4	23.5	12.9	1.7	61.9	30.5	33.4	27.6
Italy	2007	641	38.4	28.3	24.0	9.0	0.3	66.7	38.4	42.0	35.2
	2011	598	29.6	36.1	27.5	6.2	0.5	65.7	29.6	28.7	30.5
Japan	2007	641	10.2	31.0	53.4	5.1	0.3	41.2	10.2	9.9	10.5
	2011	624	13.8	34.7	47.6	3.9	0.0	48.5	13.8	11.8	15.5
Kuwait	2007	536	4.7	12.2	47.1	33.9	2.0	16.9	4.7	6.7	2.6
	2011	592	7.7	17.4	42.1	30.6	2.1	25.1	7.7	10.0	4.9
Lithuania	2007	579	16.3	33.6	41.0	9.0	0.0	50.0	16.3	18.1	14.2
	2011	657	14.3	32.8	41.1	10.9	1.0	47.1	14.3	16.5	12.5
Netherlands	2007	472	15.0	33.8	47.8	3.5	0.0	48.7	15.0	11.9	17.8
	2011	459	12.2	33.3	51.0	3.6	0.0	45.5	12.2	11.1	13.7
New Zealand	2007	723	15.8	38.2	39.4	6.5	0.2	53.9	15.8	16.2	15.3
	2011	800	14.6	37.6	41.3	5.7	0.7	52.3	14.6	16.8	12.4
Norway	2007	596	14.8	33.1	41.8	9.6	0.7	47.9	14.8	17.8	11.4
	2011	440	15.6	36.1	32.8	14.8	0.6	51.7	15.6	17.4	14.0
Russian Federation	2007	643	39.8	29.0	23.8	6.5	0.9	68.8	39.8	44.3	35.3
	2011	645	27.0	35.2	31.9	5.4	0.5	62.2	27.0	28.1	25.9
Singapore	2007	730	61.7	27.6	10.0	0.7	0.0	89.3	61.7	63.1	60.2
	2011	915	73.5	15.7	10.0	0.7	0.1	89.1	73.5	75.1	71.9
Slovak Republic	2007	706	36.7	33.4	20.1	9.7	0.2	70.0	36.7	37.3	36.0
	2011	814	31.6	36.6	23.0	8.6	0.2	68.2	31.6	33.7	29.8
Slovenia	2007	630	27.0	39.5	28.2	5.1	0.2	66.5	27.0	26.0	28.0
	2011	644	27.3	30.0	31.9	10.5	0.3	57.3	27.3	28.8	25.8

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

S11_05 (S041006): Life Science / Applying
Label: A tree and lion are living - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	22.3	40.6	28.9	7.8	0.4	62.9	22.3	23.8	20.8
	2011	632	15.2	38.4	34.7	11.0	0.7	53.6	15.2	14.4	15.8
Tunisia	2007	589	6.6	12.6	59.3	19.4	2.1	19.2	6.6	9.1	4.3
	2011	690	5.9	16.2	51.7	20.3	5.8	22.2	5.9	7.7	4.2
United States	2007	1131	24.8	32.1	41.1	1.9	0.1	56.9	24.8	23.7	25.8
	2011	1776	19.8	33.1	44.0	2.4	0.6	52.9	19.8	19.0	20.8
International Avg. (25)	2007	15869	24.4	32.2	32.8	10.0	0.5	56.7	24.4	25.1	23.7
	2011	17527	22.3	33.1	33.8	9.9	0.8	55.4	22.3	22.8	21.9
Alberta, Canada	2007	577	28.8	40.2	26.1	4.7	0.2	69.0	28.8	30.2	27.4
	2011	527	20.2	46.2	29.0	4.0	0.6	66.5	20.2	17.2	23.3
Ontario, Canada	2007	492	33.0	41.6	22.1	3.2	0.1	74.6	33.0	29.8	36.2
	2011	657	23.0	39.6	32.0	3.0	2.3	62.6	23.0	22.1	23.9
Quebec, Canada	2007	567	12.0	34.8	40.4	12.8	0.1	46.8	12.0	11.4	12.6
	2011	610	12.7	41.4	40.2	5.6	0.1	54.1	12.7	12.3	13.1
Dubai, UAE	2007	453	26.5	21.7	33.1	18.4	0.3	48.3	26.5	28.2	25.1
	2011	870	18.7	30.2	41.2	9.4	0.4	48.9	18.7	17.1	20.1

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

S11_06 (S041052): Physical Science / Knowing
Label: Which one is a solid - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	79.0	6.5	79.0	4.3	7.6	2.3	0.2	76.7	81.4
	2011	885	77.2	9.3	77.2	4.8	6.2	1.8	0.8	74.2	79.8
Austria	2007	698	77.6	9.2	77.6	4.5	5.4	3.2	0.1	76.4	78.7
	2011	660	80.2	7.3	80.2	4.3	4.8	3.2	0.2	79.1	81.1
Chinese Taipei	2007	593	83.4	7.5	83.4	5.2	2.6	1.3	0.0	83.4	83.4
	2011	609	85.5	6.1	85.5	5.3	1.7	1.4	0.1	87.9	83.5
Czech Republic	2007	604	78.4	9.5	78.4	4.4	4.9	2.3	0.5	77.8	78.9
	2011	646	77.6	8.8	77.6	5.8	5.6	1.7	0.5	69.9	84.1
Denmark	2007	506	51.0	15.0	51.0	12.6	18.1	2.3	1.0	53.5	48.9
	2011	562	53.8	15.5	53.8	8.8	15.6	5.4	1.0	50.9	57.2
England	2007	622	88.1	3.2	88.1	3.9	2.3	1.9	0.6	88.4	87.8
	2011	496	86.2	4.2	86.2	4.0	2.8	2.0	0.7	88.0	84.5
Georgia	2007	597	58.4	14.6	58.4	9.0	15.0	1.9	1.2	56.2	60.4
	2011	684	69.8	11.8	69.8	8.0	7.4	0.8	2.3	69.3	70.2
Germany	2007	719	83.1	4.6	83.1	3.8	4.4	3.4	0.7	81.6	84.6
	2011	567	82.6	4.5	82.6	5.3	4.1	2.9	0.6	81.7	83.4
Hong Kong SAR	2007	537	91.2	2.8	91.2	3.3	2.0	0.7	0.0	90.8	91.5
	2011	563	91.8	3.4	91.8	2.3	2.2	0.3	0.0	90.4	92.9
Hungary	2007	583	72.3	8.6	72.3	3.6	11.4	2.6	1.5	70.3	74.2
	2011	752	79.2	7.1	79.2	4.0	6.1	2.5	1.2	78.3	80.1
Iran, Islamic Rep. of	2007	534	68.6	15.0	68.6	8.4	5.0	1.8	1.3	68.9	68.3
	2011	818	72.7	11.7	72.7	6.5	4.2	2.6	2.2	74.6	70.9
Italy	2007	636	84.6	6.6	84.6	2.9	4.1	0.9	0.8	84.2	85.0
	2011	598	77.9	6.0	77.9	4.9	8.2	2.4	0.5	79.7	76.0
Japan	2007	641	82.9	7.5	82.9	2.1	5.6	1.6	0.3	84.7	81.0
	2011	624	85.9	5.3	85.9	2.6	5.3	0.7	0.1	87.9	84.2
Kuwait	2007	536	57.9	13.6	57.9	9.2	10.5	5.3	3.5	64.4	50.8
	2011	586	64.1	13.2	64.1	7.2	7.5	5.8	2.3	67.6	59.8
Lithuania	2007	579	90.4	2.4	90.4	1.5	5.3	0.4	0.0	91.0	89.7
	2011	657	89.4	4.1	89.4	1.4	2.6	1.6	1.0	91.1	88.0
Netherlands	2007	472	28.3	26.6	28.3	29.2	14.4	1.5	0.0	27.5	29.1
	2011	459	37.0	20.8	37.0	26.8	13.2	2.2	0.0	34.7	39.8
New Zealand	2007	723	72.1	12.1	72.1	5.0	7.5	3.0	0.2	74.0	70.0
	2011	800	71.8	9.7	71.8	4.2	11.5	1.7	1.1	71.0	72.6
Norway	2007	596	19.8	33.6	19.8	18.4	24.8	2.6	0.7	15.4	25.0
	2011	440	24.0	34.5	24.0	15.1	21.0	4.0	1.3	18.5	29.0
Russian Federation	2007	643	87.5	5.2	87.5	1.5	3.7	0.8	1.3	87.9	87.1
	2011	645	88.1	6.1	88.1	2.3	2.1	0.9	0.5	86.8	89.4
Singapore	2007	730	93.4	2.5	93.4	2.3	1.3	0.5	0.0	92.0	94.9
	2011	915	89.0	4.2	89.0	3.4	3.0	0.3	0.1	89.5	88.5
Slovak Republic	2007	706	71.4	12.9	71.4	6.5	6.7	1.9	0.5	71.5	71.4
	2011	814	73.0	13.9	73.0	6.5	4.3	2.2	0.2	70.9	74.8
Slovenia	2007	630	82.6	8.6	82.6	3.8	2.3	2.3	0.3	81.1	83.9
	2011	643	87.5	7.0	87.5	1.6	2.4	1.3	0.3	86.7	88.2

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

S11_06 (S041052): Physical Science / Knowing
Label: Which one is a solid - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	56.9	19.8	56.9	14.7	6.7	1.5	0.4	57.4	56.5
	2011	632	66.5	16.0	66.5	7.3	6.0	3.0	1.1	67.0	66.1
Tunisia	2007	589	58.6	5.3	58.6	7.4	8.0	17.5	3.3	64.0	53.8
	2011	679	58.2	4.9	58.2	9.0	13.0	7.9	6.9	62.6	54.1
United States	2007	1131	83.0	6.3	83.0	3.9	5.4	1.3	0.1	81.2	84.8
	2011	1776	85.2	4.0	85.2	3.0	4.0	3.0	0.9	82.7	87.9

International Avg. (25)	2007	15861	72.0	10.4	72.0	6.9	7.4	2.6	0.7	72.0	72.0
	2011	17510	74.2	9.6	74.2	6.2	6.6	2.5	1.0	73.6	74.6

Alberta, Canada	2007	577	78.1	7.5	78.1	3.9	9.1	1.1	0.3	78.2	78.0
	2011	527	81.8	4.3	81.8	5.3	4.4	2.4	1.9	78.7	84.9
Ontario, Canada	2007	492	81.7	6.3	81.7	2.8	7.2	1.8	0.1	79.4	83.9
	2011	657	84.5	4.5	84.5	3.1	3.9	1.3	2.7	83.8	85.1
Quebec, Canada	2007	567	87.3	6.1	87.3	1.7	3.0	1.7	0.3	88.9	85.6
	2011	610	84.6	4.7	84.6	4.8	3.4	2.1	0.4	82.9	86.4
Dubai, UAE	2007	453	71.6	15.8	71.6	4.6	5.2	2.4	0.3	69.1	73.7
	2011	870	76.4	10.8	76.4	4.4	6.2	1.8	0.4	75.0	77.6

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

S11_07 (S041301): Life Science / Applying
Label: Importance of drinking water - Points: 1

COUNTRY	YEAR	N	10 %	11 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	6.3	40.0	0.0	48.2	5.1	0.3	46.3	46.1	46.5
	2011	885	5.6	39.6	0.4	49.4	3.6	1.3	45.6	45.9	45.3
Austria	2007	698	4.9	36.0	0.1	45.5	13.3	0.1	41.0	40.7	41.3
	2011	660	6.3	34.9	0.0	48.3	10.1	0.3	41.2	34.7	46.5
Chinese Taipei	2007	593	36.9	11.5	0.1	44.6	7.0	0.0	48.4	50.3	46.8
	2011	609	33.3	6.4	0.0	53.5	6.6	0.1	39.8	39.9	39.6
Czech Republic	2007	603	6.7	23.8	0.6	51.9	16.4	0.5	31.2	33.8	28.7
	2011	646	6.4	27.4	0.0	56.4	9.3	0.5	33.8	34.8	33.0
Denmark	2007	510	8.2	18.6	0.2	63.6	8.4	1.0	27.0	30.6	23.8
	2011	562	8.2	29.0	0.8	55.9	4.8	1.3	38.0	44.2	30.9
England	2007	622	16.0	35.6	0.1	44.8	2.9	0.6	51.7	50.9	52.6
	2011	496	5.5	43.1	0.0	46.6	4.1	0.7	48.7	54.9	42.6
Georgia	2007	597	4.9	5.9	3.6	60.9	23.0	1.7	14.5	15.5	13.6
	2011	684	6.1	7.7	4.1	65.8	13.6	2.5	18.0	18.3	17.7
Germany	2007	719	15.7	35.6	0.1	38.3	9.6	0.7	51.4	53.7	49.2
	2011	567	9.2	36.5	0.0	42.3	11.1	1.0	45.6	45.9	45.4
Hong Kong SAR	2007	537	24.9	5.5	4.1	60.7	4.8	0.0	34.5	39.1	29.7
	2011	563	26.7	2.8	1.1	62.3	7.1	0.0	30.6	30.7	30.4
Hungary	2007	583	8.4	59.8	0.1	22.3	7.9	1.6	68.2	67.1	69.3
	2011	752	3.8	52.1	0.2	36.5	5.9	1.5	56.2	56.7	55.6
Iran, Islamic Rep. of	2007	534	7.4	4.1	5.1	59.8	22.3	1.3	16.7	18.2	15.1
	2011	818	6.6	6.2	3.0	63.6	18.2	2.5	15.7	18.2	13.2
Italy	2007	641	11.2	9.5	1.2	69.4	7.9	0.8	21.8	21.1	22.5
	2011	598	7.2	10.7	0.9	73.6	6.8	0.8	18.8	18.8	18.8
Japan	2007	641	7.3	25.8	1.7	57.5	7.0	0.7	34.8	39.5	30.1
	2011	624	9.6	29.2	2.4	54.7	3.7	0.4	41.2	43.2	39.5
Kuwait	2007	536	2.4	5.3	3.1	44.2	41.3	3.8	10.8	11.9	9.6
	2011	592	0.8	0.5	7.1	47.9	40.5	3.2	8.4	12.3	3.6
Lithuania	2007	579	11.2	13.8	3.0	62.1	9.7	0.1	28.0	26.3	30.0
	2011	657	7.3	3.2	3.9	76.3	8.3	1.0	14.4	17.1	12.2
Netherlands	2007	472	4.6	51.1	1.0	42.2	1.0	0.0	56.7	57.3	56.2
	2011	459	3.1	48.4	1.1	45.3	1.9	0.2	52.6	49.5	56.6
New Zealand	2007	723	7.6	34.8	0.0	52.4	4.9	0.3	42.4	43.8	40.9
	2011	800	6.4	32.1	0.0	57.3	3.0	1.2	38.5	36.3	40.7
Norway	2007	596	3.3	16.8	0.0	67.3	11.8	0.9	20.1	22.0	17.8
	2011	440	3.2	21.8	0.3	59.9	13.5	1.3	25.4	28.8	22.2
Russian Federation	2007	643	17.4	8.7	0.0	62.1	10.5	1.3	26.1	29.8	22.5
	2011	645	7.7	7.8	1.4	74.4	8.1	0.6	16.9	15.3	18.5
Singapore	2007	730	22.0	12.2	5.7	58.6	1.4	0.0	39.9	39.5	40.4
	2011	915	21.0	18.4	5.8	52.6	2.0	0.1	45.3	42.0	48.4
Slovak Republic	2007	706	7.2	30.7	2.7	52.3	6.6	0.5	40.6	41.2	40.1
	2011	814	3.1	24.1	3.2	61.2	7.6	0.7	30.4	29.1	31.6
Slovenia	2007	630	4.0	11.4	2.6	77.7	3.9	0.3	18.1	17.6	18.5
	2011	644	7.1	16.4	0.8	67.0	7.8	1.0	24.2	24.8	23.5

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

S11_07 (S041301): Life Science / Applying
Label: Importance of drinking water - Points: 1

COUNTRY	YEAR	N	10 %	11 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	4.0	38.7	0.0	50.6	6.2	0.5	42.7	45.6	39.8
	2011	632	6.9	36.2	0.1	46.1	9.3	1.4	43.2	45.1	41.6
Tunisia	2007	589	1.0	2.1	0.3	71.8	20.6	4.2	3.5	3.1	3.8
	2011	690	1.8	1.4	2.3	68.8	18.2	7.5	5.5	6.2	4.9
United States	2007	1131	7.7	33.9	0.0	55.8	2.4	0.3	41.5	41.3	41.8
	2011	1776	5.1	32.2	0.0	60.0	1.7	1.0	37.3	36.4	38.3

International Avg. (25)	2007	15869	10.1	22.9	1.4	54.6	10.2	0.9	34.3	35.4	33.2
	2011	17528	8.3	22.7	1.6	57.0	9.1	1.3	32.6	33.2	32.0

Alberta, Canada	2007	577	9.6	36.8	3.7	46.4	3.3	0.3	50.1	50.2	50.0
	2011	527	4.3	35.0	0.7	56.2	1.7	2.0	40.1	43.7	36.4
Ontario, Canada	2007	492	9.2	43.1	0.7	44.5	2.1	0.3	53.1	54.9	51.2
	2011	657	5.3	36.5	1.4	50.2	3.7	2.8	43.2	43.1	43.4
Quebec, Canada	2007	567	8.5	43.2	0.2	41.1	6.5	0.5	52.0	53.8	50.1
	2011	610	2.9	45.8	0.3	45.9	4.4	0.6	49.0	46.9	51.1
Dubai, UAE	2007	453	11.0	8.7	2.0	57.7	20.3	0.3	21.6	24.9	18.8
	2011	870	8.3	13.3	0.1	64.9	12.9	0.6	21.7	22.9	20.7

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

S11_09 (S041033): Life Science / Applying

Label: Physical change- mammals in winter - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	13.5	16.2	55.6	14.0	0.8	29.6	29.9	29.3
	2011	885	11.2	14.7	61.1	11.6	1.4	25.9	28.0	24.0
Austria	2007	698	27.6	7.3	33.9	31.1	0.1	34.9	39.2	31.0
	2011	660	26.6	6.9	34.0	32.0	0.4	33.5	31.5	35.2
Chinese Taipei	2007	593	11.4	31.1	38.0	19.3	0.2	42.6	38.6	46.0
	2011	609	14.1	26.1	43.3	16.3	0.1	40.3	37.5	42.6
Czech Republic	2007	604	13.3	8.2	48.1	29.1	1.2	21.6	18.5	24.4
	2011	646	19.6	6.0	46.2	27.3	0.9	25.6	26.9	24.6
Denmark	2007	510	19.9	15.9	43.7	19.2	1.4	35.8	35.2	36.3
	2011	562	19.2	12.6	51.7	14.7	1.8	31.8	30.9	32.9
England	2007	622	16.5	15.0	53.8	14.0	0.6	31.6	32.7	30.4
	2011	496	14.6	13.5	52.2	18.4	1.2	28.2	34.6	21.8
Georgia	2007	597	4.8	5.7	42.1	44.3	3.1	10.5	10.8	10.3
	2011	669	14.0	7.8	41.6	32.5	4.1	21.8	24.1	19.5
Germany	2007	719	31.0	8.3	33.5	26.3	0.9	39.3	40.9	37.7
	2011	567	27.0	6.3	31.9	33.5	1.3	33.3	36.2	30.5
Hong Kong SAR	2007	537	9.6	21.8	58.0	10.7	0.0	31.3	34.1	28.5
	2011	563	10.3	17.4	57.1	15.2	0.0	27.8	34.5	22.6
Hungary	2007	583	27.7	3.3	37.2	29.7	2.1	31.0	33.5	28.8
	2011	752	29.4	3.9	40.9	23.6	2.3	33.2	37.4	28.5
Iran, Islamic Rep. of	2007	533	1.2	5.0	49.0	42.7	2.1	6.2	6.4	6.1
	2011	818	2.3	6.8	46.7	40.2	4.0	9.1	10.7	7.5
Italy	2007	641	27.1	18.4	35.6	17.9	1.0	45.5	46.0	45.0
	2011	598	25.1	16.2	38.0	19.5	1.2	41.3	41.4	41.2
Japan	2007	641	11.2	17.6	59.6	10.9	0.8	28.7	32.4	25.1
	2011	624	9.0	20.3	61.1	9.0	0.7	29.2	26.2	31.9
Kuwait	2007	536	5.1	3.1	32.4	55.3	4.2	8.2	11.3	4.8
	2011	593	1.8	3.0	45.2	46.1	3.8	4.9	5.2	4.5
Lithuania	2007	579	6.6	6.3	62.9	23.5	0.8	12.9	13.7	11.8
	2011	657	8.8	6.8	64.0	19.4	1.0	15.7	18.1	13.7
Netherlands	2007	472	32.0	7.7	52.9	7.1	0.3	39.7	41.8	37.8
	2011	459	32.4	6.7	53.5	7.0	0.4	39.1	41.3	36.8
New Zealand	2007	723	12.0	10.4	61.5	15.1	1.0	22.4	23.2	21.6
	2011	800	10.2	10.9	65.2	11.9	1.8	21.1	22.9	19.2
Norway	2007	596	17.6	6.7	52.8	21.8	1.0	24.3	27.9	20.1
	2011	440	18.0	4.7	49.2	23.5	4.6	22.7	23.6	21.8
Russian Federation	2007	643	24.7	10.6	49.2	13.9	1.6	35.3	31.6	39.0
	2011	645	22.9	12.8	49.4	13.8	1.1	35.7	38.1	33.3
Singapore	2007	730	11.0	12.3	73.2	3.5	0.0	23.3	23.7	22.9
	2011	915	16.8	17.8	61.2	4.0	0.3	34.6	34.8	34.3
Slovak Republic	2007	706	24.0	8.8	42.9	23.2	1.1	32.8	34.6	31.0
	2011	814	24.0	6.4	46.4	21.8	1.3	30.4	33.2	27.9
Slovenia	2007	630	20.6	7.3	54.6	16.9	0.5	27.9	29.3	26.8
	2011	644	18.7	3.5	50.1	25.9	1.8	22.3	24.3	20.3

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

S11_09 (S041033): Life Science / Applying

Label: Physical change- mammals in winter - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	19.1	7.5	50.1	22.6	0.7	26.6	28.4	24.8
	2011	632	21.8	4.7	48.8	22.4	2.3	26.5	30.7	22.8
Tunisia	2007	589	1.4	3.2	47.1	42.8	5.5	4.6	4.7	4.4
	2011	690	1.5	5.0	47.6	37.2	8.8	6.5	7.4	5.7
United States	2007	1131	16.3	16.9	60.5	5.8	0.5	33.2	33.3	33.2
	2011	1776	16.9	18.1	57.6	5.5	1.9	35.0	35.4	34.7

International Avg. (25)	2007	15869	16.2	11.0	49.1	22.4	1.3	27.2	28.1	26.3
	2011	17514	16.7	10.4	49.8	21.3	1.9	27.0	28.6	25.5

Alberta, Canada	2007	577	16.2	16.7	54.0	12.6	0.5	32.9	36.7	29.1
	2011	527	21.2	10.9	60.3	5.4	2.2	32.1	35.6	28.6
Ontario, Canada	2007	492	19.9	18.3	52.4	9.0	0.4	38.2	44.0	32.5
	2011	657	15.6	16.3	53.5	10.6	4.1	31.8	32.2	31.5
Quebec, Canada	2007	567	20.7	15.1	44.5	19.2	0.5	35.8	38.0	33.4
	2011	610	20.7	12.9	56.0	9.7	0.7	33.7	37.0	30.3
Dubai, UAE	2007	453	5.1	8.6	52.2	33.3	0.9	13.6	15.5	12.0
	2011	870	5.8	9.7	53.4	30.1	1.0	15.5	15.2	15.7

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

S11_11 (S041077): Physical Science / Applying

Label: Label the poles on the top magnet - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	44.5	28.0	7.8	7.2	11.3	1.2	44.5	39.2	49.9
	2011	885	35.6	30.0	11.7	8.6	12.4	1.7	35.6	33.6	37.4
Austria	2007	698	49.8	13.1	9.6	8.6	18.5	0.3	49.8	43.5	55.5
	2011	660	46.1	17.0	4.7	11.2	19.6	1.3	46.1	42.3	49.1
Chinese Taipei	2007	593	70.2	18.2	0.4	5.0	6.0	0.2	70.2	69.8	70.5
	2011	609	70.0	18.1	0.0	3.2	8.7	0.1	70.0	73.5	67.0
Czech Republic	2007	604	39.9	19.3	6.7	13.1	19.8	1.2	39.9	38.6	41.1
	2011	646	40.9	20.2	5.9	13.1	18.0	1.9	40.9	43.7	38.6
Denmark	2007	509	27.9	22.2	24.5	7.7	15.6	2.0	27.9	29.2	26.8
	2011	562	28.3	18.8	29.8	7.7	12.8	2.6	28.3	24.9	32.1
England	2007	622	51.8	23.8	5.9	8.7	9.2	0.7	51.8	51.7	51.9
	2011	496	46.2	24.4	5.5	10.3	11.6	2.0	46.2	47.9	44.5
Georgia	2007	597	15.7	9.2	0.0	21.1	49.5	4.4	15.7	15.0	16.4
	2011	684	13.8	12.4	34.2	10.5	22.8	6.3	13.8	12.9	14.6
Germany	2007	719	48.9	14.4	5.4	10.3	19.8	1.2	48.9	41.0	57.0
	2011	567	49.0	16.7	5.5	8.5	18.8	1.5	49.0	39.4	57.9
Hong Kong SAR	2007	537	54.3	17.4	3.1	15.1	10.0	0.2	54.3	47.0	61.9
	2011	563	54.5	17.5	1.3	13.3	13.4	0.0	54.5	47.7	59.8
Hungary	2007	583	44.7	16.8	5.4	15.1	15.9	2.2	44.7	40.8	48.2
	2011	752	42.1	17.9	4.1	20.7	12.0	3.2	42.1	38.8	45.8
Iran, Islamic Rep. of	2007	533	32.3	18.8	15.1	12.1	18.9	2.7	32.3	27.5	37.3
	2011	818	38.3	15.9	9.6	17.0	14.3	4.9	38.3	33.7	43.0
Italy	2007	641	33.9	21.3	1.9	15.5	25.7	1.6	33.9	31.1	36.5
	2011	598	34.3	20.4	3.6	18.4	21.5	1.9	34.3	34.5	34.0
Japan	2007	641	83.3	7.7	0.0	4.7	3.5	0.8	83.3	85.1	81.5
	2011	624	83.6	9.0	0.0	3.3	2.6	1.5	83.6	84.2	83.2
Kuwait	2007	536	7.0	3.7	0.6	22.9	60.4	5.4	7.0	7.6	6.5
	2011	593	43.1	4.3	0.4	34.0	13.5	4.7	43.1	47.3	38.0
Lithuania	2007	579	38.6	17.6	6.0	11.6	25.3	0.9	38.6	37.3	40.2
	2011	657	46.6	16.9	5.2	13.2	17.2	1.0	46.6	45.7	47.3
Netherlands	2007	472	42.7	20.4	3.6	23.7	9.3	0.3	42.7	44.3	41.3
	2011	459	48.1	18.4	5.0	18.4	9.1	1.1	48.1	46.6	50.0
New Zealand	2007	723	38.1	26.7	9.1	9.2	15.3	1.5	38.1	31.9	44.5
	2011	800	30.3	28.4	12.7	13.3	13.2	2.1	30.3	26.5	34.1
Norway	2007	596	29.2	20.3	2.7	15.6	30.8	1.4	29.2	27.5	31.2
	2011	440	25.9	21.7	4.6	9.7	33.0	5.1	25.9	25.2	26.6
Russian Federation	2007	643	56.0	16.3	1.4	14.2	9.3	2.9	56.0	54.4	57.5
	2011	645	59.9	15.9	1.3	12.3	8.6	2.0	59.9	59.8	60.1
Singapore	2007	730	80.3	11.0	0.8	6.1	1.9	0.0	80.3	79.7	80.8
	2011	915	87.4	6.5	0.3	3.3	2.2	0.3	87.4	88.2	86.7
Slovak Republic	2007	706	44.3	17.8	3.3	16.3	17.1	1.2	44.3	38.3	50.2
	2011	814	49.0	18.1	5.4	13.3	12.3	1.8	49.0	43.1	54.2
Slovenia	2007	630	44.2	21.1	6.8	17.7	9.6	0.6	44.2	42.1	46.0
	2011	644	48.9	16.2	8.4	12.8	11.6	2.2	48.9	48.2	49.6

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

S11_11 (S041077): Physical Science / Applying

Label: Label the poles on the top magnet - Points: 1

COUNTRY	YEAR	N	10 %	70 %	71 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	41.2	11.3	3.8	18.3	24.5	0.9	41.2	37.9	44.5
	2011	632	43.7	13.1	1.6	17.0	21.4	3.2	43.7	44.7	42.8
Tunisia	2007	589	7.7	11.2	4.3	31.7	38.0	7.2	7.7	8.2	7.2
	2011	690	10.5	14.6	7.4	25.5	31.2	10.7	10.5	11.3	9.8
United States	2007	1131	48.6	21.9	3.9	17.0	7.9	0.7	48.6	46.7	50.4
	2011	1776	48.2	22.6	4.4	15.5	6.7	2.8	48.2	44.7	51.9
International Avg. (25)	2007	15868	43.0	17.2	5.3	13.9	18.9	1.7	43.0	40.6	45.4
	2011	17529	45.0	17.4	6.9	13.4	14.7	2.6	45.0	43.5	46.3
Alberta, Canada	2007	577	48.7	27.2	5.9	6.5	10.6	1.1	48.7	49.7	47.8
	2011	527	51.2	24.8	5.3	8.3	7.7	2.7	51.2	47.2	55.3
Ontario, Canada	2007	492	59.7	22.9	3.7	4.6	8.3	0.9	59.7	57.1	62.2
	2011	657	42.3	27.0	6.9	9.5	8.6	5.6	42.3	38.0	46.6
Quebec, Canada	2007	567	38.9	18.3	8.0	16.3	17.5	1.0	38.9	39.1	38.7
	2011	610	38.7	21.5	9.0	15.9	13.4	1.4	38.7	33.5	43.9
Dubai, UAE	2007	453	33.2	21.9	5.0	11.2	27.9	0.9	33.2	33.8	32.7
	2011	869	33.7	20.7	5.3	16.7	22.2	1.3	33.7	36.3	31.5

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

S11_12 (S041209): Earth Science / Knowing

Label: Time Earth orbits the sun once - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	48.4	36.8	5.4	48.4	6.9	1.0	1.6	47.0	49.8
	2011	885	46.3	34.5	6.9	46.3	6.0	3.6	2.7	41.4	50.7
Austria	2007	698	54.4	34.7	4.9	54.4	3.4	2.4	0.3	52.6	56.1
	2011	660	55.8	30.5	5.8	55.8	2.6	2.9	2.5	50.1	60.4
Chinese Taipei	2007	593	45.8	40.1	8.4	45.8	5.6	0.0	0.2	40.6	50.2
	2011	609	46.5	41.0	5.3	46.5	6.3	0.7	0.2	41.8	50.4
Czech Republic	2007	604	47.3	44.9	3.7	47.3	1.8	1.1	1.2	47.5	47.1
	2011	646	49.5	41.4	4.0	49.5	1.0	2.1	2.1	47.6	51.0
Denmark	2007	509	47.1	39.1	5.8	47.1	4.8	0.9	2.3	43.1	50.6
	2011	562	46.7	35.9	7.4	46.7	3.4	3.0	3.6	46.4	47.0
England	2007	622	54.3	33.5	6.2	54.3	3.5	1.5	1.0	47.0	62.2
	2011	496	52.2	33.6	4.5	52.2	4.5	2.5	2.7	47.7	56.5
Georgia	2007	597	39.6	44.1	3.3	39.6	5.3	1.9	5.8	42.4	37.1
	2011	684	33.7	46.7	4.4	33.7	7.8	0.8	6.7	35.6	32.0
Germany	2007	719	46.6	41.8	4.6	46.6	5.2	0.4	1.4	43.7	49.5
	2011	567	44.8	43.2	4.9	44.8	4.6	0.9	1.6	42.0	47.4
Hong Kong SAR	2007	537	54.4	35.5	3.1	54.4	6.2	0.6	0.2	49.9	59.0
	2011	563	55.0	32.5	5.1	55.0	6.1	1.0	0.4	50.9	58.1
Hungary	2007	583	48.8	40.9	3.0	48.8	3.2	1.4	2.7	45.9	51.4
	2011	752	52.2	36.5	3.9	52.2	3.1	0.6	3.8	51.4	53.0
Iran, Islamic Rep. of	2007	533	38.5	41.1	9.0	38.5	5.9	2.3	3.1	40.6	36.3
	2011	818	51.0	29.9	7.6	51.0	4.1	1.6	5.8	49.0	53.0
Italy	2007	639	44.8	41.0	5.1	44.8	5.0	2.3	1.7	42.4	47.0
	2011	598	43.1	44.5	3.4	43.1	4.7	1.9	2.5	37.5	49.3
Japan	2007	641	35.9	51.8	6.4	35.9	4.0	0.9	0.9	35.6	36.2
	2011	624	43.1	44.7	4.2	43.1	5.4	0.2	2.4	36.0	49.2
Kuwait	2007	536	34.3	22.8	19.7	34.3	13.4	3.7	6.1	39.7	28.5
	2011	586	49.5	21.4	13.1	49.5	5.9	5.4	4.6	50.8	47.8
Lithuania	2007	579	50.1	41.5	3.6	50.1	3.5	0.3	1.0	49.3	51.2
	2011	657	38.7	51.1	4.6	38.7	4.2	0.2	1.3	34.2	42.4
Netherlands	2007	472	40.9	44.7	10.2	40.9	3.1	0.5	0.5	37.0	44.5
	2011	459	49.4	39.9	6.2	49.4	2.3	0.8	1.5	46.7	52.7
New Zealand	2007	723	40.0	41.8	6.6	40.0	7.6	2.4	1.5	38.7	41.4
	2011	800	32.8	45.1	8.9	32.8	8.4	2.2	2.6	30.0	35.6
Norway	2007	596	54.9	32.9	5.8	54.9	2.6	1.3	2.5	50.7	59.8
	2011	440	51.3	32.6	4.5	51.3	2.7	2.4	6.5	47.0	55.3
Russian Federation	2007	643	48.7	42.3	3.7	48.7	1.5	0.5	3.2	45.8	51.7
	2011	645	45.6	45.7	4.1	45.6	1.3	0.8	2.6	44.9	46.4
Singapore	2007	730	39.7	44.3	6.6	39.7	9.0	0.4	0.0	39.3	40.2
	2011	915	33.2	52.2	6.4	33.2	7.4	0.3	0.5	31.0	35.5
Slovak Republic	2007	706	55.3	38.9	2.2	55.3	1.1	1.3	1.3	52.7	57.9
	2011	814	53.0	40.3	2.5	53.0	1.4	0.8	2.0	50.5	55.2
Slovenia	2007	630	45.4	46.1	5.5	45.4	1.8	0.6	0.6	44.2	46.6
	2011	643	43.1	48.4	3.0	43.1	1.6	1.2	2.7	42.1	44.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S11_12 (S041209): Earth Science / Knowing
Label: Time Earth orbits the sun once - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	65.4	24.3	4.4	65.4	3.6	1.2	1.1	62.7	68.2
	2011	632	68.3	17.6	6.0	68.3	1.7	1.9	4.4	73.6	63.8
Tunisia	2007	589	21.1	37.3	10.8	21.1	11.9	10.5	8.4	21.7	20.6
	2011	682	19.3	41.6	10.9	19.3	13.5	3.6	11.2	22.5	16.1
United States	2007	1131	52.9	35.7	4.9	52.9	4.8	0.8	0.9	51.1	54.6
	2011	1776	50.2	36.2	4.3	50.2	4.1	1.7	3.5	48.5	52.0
International Avg. (25)	2007	15866	46.2	39.1	6.1	46.2	5.0	1.6	2.0	44.4	47.9
	2011	17513	46.2	38.7	5.7	46.2	4.6	1.7	3.2	44.0	48.2
Alberta, Canada	2007	577	40.9	41.0	6.9	40.9	8.1	1.8	1.1	35.3	46.5
	2011	527	34.4	47.1	6.8	34.4	6.1	1.7	3.8	32.2	36.7
Ontario, Canada	2007	492	33.1	49.7	9.2	33.1	6.4	0.4	1.2	33.3	32.9
	2011	657	30.0	51.7	5.0	30.0	6.5	0.9	6.0	25.5	34.3
Quebec, Canada	2007	567	51.4	32.6	8.8	51.4	5.0	1.2	1.0	45.3	58.0
	2011	610	48.4	38.2	4.7	48.4	4.6	1.7	2.3	47.7	49.1
Dubai, UAE	2007	453	36.7	46.2	7.5	36.7	7.6	1.1	1.0	35.2	38.0
	2011	869	43.1	38.8	5.5	43.1	8.1	2.4	2.1	36.5	48.6

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

S11_13 (S041081): Earth Science / Knowing
Label: Two things make up crust - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	46.3	18.9	22.8	10.4	1.7	65.1	46.3	38.4	54.5
	2011	885	34.2	27.4	24.8	10.6	3.1	61.6	34.2	31.6	36.4
Austria	2007	698	49.0	19.2	10.0	21.2	0.6	68.2	49.0	42.8	54.6
	2011	660	42.5	19.6	14.5	20.6	2.7	62.1	42.5	39.0	45.4
Chinese Taipei	2007	593	26.1	16.0	34.0	23.8	0.2	42.0	26.1	23.7	28.2
	2011	609	24.8	24.6	28.2	22.3	0.2	49.3	24.8	27.1	22.8
Czech Republic	2007	604	26.3	15.8	25.8	30.8	1.2	42.1	26.3	21.9	30.5
	2011	646	32.9	20.9	21.8	22.2	2.3	53.8	32.9	27.8	37.2
Denmark	2007	510	51.4	16.2	14.4	15.7	2.3	67.7	51.4	49.1	53.5
	2011	562	45.4	23.2	17.1	10.6	3.8	68.6	45.4	43.0	48.1
England	2007	622	36.7	23.4	26.4	12.5	1.0	60.1	36.7	32.6	41.1
	2011	496	38.0	22.3	23.6	13.1	3.0	60.3	38.0	44.4	31.8
Georgia	2007	597	9.5	10.0	27.4	46.6	6.4	19.6	9.5	9.8	9.3
	2011	683	16.4	8.1	28.2	40.3	7.0	24.5	16.4	16.0	16.9
Germany	2007	719	43.4	21.5	16.2	17.5	1.4	64.8	43.4	36.9	49.9
	2011	567	40.7	21.3	15.1	21.3	1.6	62.0	40.7	36.3	44.7
Hong Kong SAR	2007	537	26.5	40.3	25.2	7.8	0.2	66.8	26.5	26.4	26.5
	2011	563	25.2	32.9	33.4	8.2	0.4	58.0	25.2	26.0	24.5
Hungary	2007	583	24.2	14.6	32.6	25.8	2.8	38.8	24.2	21.3	26.9
	2011	752	31.1	16.8	26.2	22.1	3.8	47.9	31.1	29.0	33.4
Iran, Islamic Rep. of	2007	534	4.4	6.8	53.9	31.3	3.7	11.2	4.4	3.1	5.7
	2011	819	7.1	12.2	46.9	27.8	6.0	19.3	7.1	5.5	8.7
Italy	2007	641	29.8	18.1	21.9	28.4	1.7	47.9	29.8	26.9	32.4
	2011	598	19.8	28.2	27.9	21.4	2.7	48.0	19.8	17.4	22.4
Japan	2007	641	16.7	30.8	37.9	13.7	0.9	47.4	16.7	20.3	13.1
	2011	624	23.0	30.7	32.6	11.3	2.4	53.7	23.0	23.4	22.6
Kuwait	2007	536	8.3	3.1	31.3	50.9	6.3	11.4	8.3	9.9	6.6
	2011	593	11.3	11.8	36.5	34.6	5.9	23.1	11.3	13.2	9.0
Lithuania	2007	579	28.2	18.5	19.7	32.4	1.1	46.7	28.2	29.5	26.6
	2011	657	31.1	18.4	26.4	22.9	1.3	49.5	31.1	34.8	28.2
Netherlands	2007	472	51.1	22.1	19.8	6.6	0.5	73.2	51.1	47.7	54.2
	2011	459	39.6	37.5	17.8	3.6	1.5	77.2	39.6	36.2	44.5
New Zealand	2007	723	33.5	24.9	27.0	12.9	1.7	58.4	33.5	29.2	37.9
	2011	800	30.7	27.3	30.6	8.8	2.6	58.0	30.7	28.1	33.2
Norway	2007	596	40.4	24.2	16.0	16.7	2.7	64.6	40.4	39.2	41.7
	2011	440	47.9	25.4	8.6	11.7	6.5	73.2	47.9	46.8	48.9
Russian Federation	2007	643	25.7	29.8	23.2	18.1	3.2	55.5	25.7	25.2	26.1
	2011	645	27.3	36.0	18.4	15.7	2.6	63.3	27.3	26.3	28.2
Singapore	2007	730	26.2	26.7	42.3	4.8	0.0	52.9	26.2	24.4	28.1
	2011	915	20.8	39.1	34.7	5.0	0.5	59.9	20.8	17.0	24.4
Slovak Republic	2007	706	20.7	15.9	36.0	26.0	1.3	36.7	20.7	18.8	22.6
	2011	814	20.5	12.0	42.7	22.7	2.1	32.5	20.5	19.4	21.5
Slovenia	2007	630	36.3	18.6	24.4	20.0	0.8	54.8	36.3	33.8	38.4
	2011	644	32.5	15.8	24.0	24.8	2.8	48.3	32.5	31.4	33.6

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

S11_13 (S041081): Earth Science / Knowing
Label: Two things make up crust - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	41.1	28.4	14.7	14.6	1.1	69.5	41.1	41.7	40.5
	2011	632	48.2	21.5	12.1	13.4	4.9	69.6	48.2	41.7	53.7
Tunisia	2007	589	3.0	5.6	48.0	34.2	9.1	8.7	3.0	3.1	3.0
	2011	690	5.7	11.4	41.2	30.0	11.7	17.1	5.7	3.2	8.1
United States	2007	1131	37.7	26.8	29.7	4.8	0.9	64.5	37.7	33.8	41.4
	2011	1776	39.2	28.8	24.7	3.6	3.7	68.0	39.2	35.8	43.0

International Avg. (25)	2007	15870	29.7	19.8	27.2	21.1	2.1	49.5	29.7	27.6	31.7
	2011	17529	29.4	22.9	26.3	17.9	3.4	52.3	29.4	28.0	30.8

Alberta, Canada	2007	577	36.5	37.7	17.0	7.6	1.1	74.3	36.5	37.2	35.9
	2011	527	41.0	33.2	17.4	4.6	3.8	74.2	41.0	35.9	46.1
Ontario, Canada	2007	492	32.6	34.4	23.9	7.9	1.2	67.0	32.6	32.5	32.8
	2011	657	35.8	28.4	22.4	7.5	6.0	64.1	35.8	37.7	34.0
Quebec, Canada	2007	567	22.8	21.1	32.2	22.8	1.1	43.9	22.8	19.2	26.7
	2011	610	25.3	23.4	32.0	17.0	2.3	48.7	25.3	21.1	29.4
Dubai, UAE	2007	453	17.5	20.1	39.4	22.0	1.0	37.6	17.5	21.6	14.1
	2011	870	27.8	14.7	35.5	19.9	2.2	42.5	27.8	23.8	31.2

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

S11_14 (S041102): Earth Science / Applying
Label: In which place will it snow - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	590	67.7	10.7	13.4	67.7	4.2	1.6	2.4	70.3	65.0
	2011	885	63.7	14.5	13.4	63.7	2.5	2.7	3.2	59.5	67.5
Austria	2007	698	69.0	7.0	8.4	69.0	9.8	4.4	1.5	68.5	69.3
	2011	660	63.6	5.8	9.8	63.6	8.0	8.0	4.8	61.7	65.1
Chinese Taipei	2007	593	58.2	8.5	28.4	58.2	3.2	1.5	0.2	51.4	64.0
	2011	609	64.7	4.6	27.3	64.7	2.1	0.8	0.5	60.7	68.1
Czech Republic	2007	604	76.6	6.3	6.0	76.6	3.1	5.2	2.8	78.0	75.3
	2011	646	83.8	3.9	4.1	83.8	1.3	3.0	4.0	84.8	83.0
Denmark	2007	501	77.9	4.5	9.7	77.9	3.4	1.1	3.5	80.4	75.6
	2011	562	77.2	4.7	6.6	77.2	1.8	4.8	4.9	74.8	79.9
England	2007	622	75.1	6.9	11.5	75.1	3.6	1.5	1.5	74.1	76.2
	2011	496	71.9	7.6	11.0	71.9	2.2	3.4	3.8	70.5	73.2
Georgia	2007	597	40.6	19.0	16.3	40.6	8.3	6.0	9.9	41.1	40.1
	2011	683	44.8	16.6	17.0	44.8	9.0	2.7	9.8	45.0	44.6
Germany	2007	719	64.8	4.6	4.6	64.8	12.9	10.2	2.8	63.3	66.4
	2011	567	69.1	5.1	6.5	69.1	10.6	5.5	3.2	65.0	72.9
Hong Kong SAR	2007	537	56.2	1.8	39.9	56.2	1.1	0.5	0.4	49.1	63.6
	2011	563	67.4	3.6	27.3	67.4	1.1	0.2	0.4	59.4	73.6
Hungary	2007	583	72.0	2.9	9.5	72.0	2.1	7.8	5.7	73.5	70.6
	2011	752	73.2	5.9	7.9	73.2	2.7	4.6	5.7	73.0	73.4
Iran, Islamic Rep. of	2007	534	31.7	37.2	12.4	31.7	7.0	5.0	6.7	30.4	33.1
	2011	819	34.7	36.8	11.4	34.7	5.5	3.5	8.1	30.3	39.0
Italy	2007	613	74.1	11.4	8.1	74.1	1.9	1.5	3.0	72.8	75.3
	2011	598	74.3	10.5	6.6	74.3	1.4	2.9	4.4	72.6	76.2
Japan	2007	641	83.3	3.4	9.0	83.3	1.6	1.3	1.4	83.3	83.3
	2011	624	81.8	4.2	9.5	81.8	0.2	1.5	2.8	82.0	81.7
Kuwait	2007	536	31.5	25.9	17.8	31.5	7.1	6.9	10.7	29.2	34.1
	2011	584	30.7	22.6	23.2	30.7	9.7	7.1	6.8	33.9	26.7
Lithuania	2007	579	68.6	9.5	10.6	68.6	2.0	4.6	4.7	69.1	68.1
	2011	657	69.6	10.2	12.0	69.6	2.6	2.8	2.8	66.2	72.4
Netherlands	2007	472	84.7	3.7	6.8	84.7	2.3	1.6	0.9	83.7	85.6
	2011	459	85.7	4.8	4.3	85.7	1.5	1.3	2.3	85.1	86.3
New Zealand	2007	723	60.2	16.6	13.8	60.2	4.2	3.0	2.2	57.3	63.3
	2011	800	60.7	15.8	12.0	60.7	5.4	2.9	3.1	58.8	62.6
Norway	2007	596	72.2	7.8	7.9	72.2	3.1	3.3	5.8	73.3	70.9
	2011	440	72.3	5.3	7.8	72.3	1.9	4.8	7.9	75.5	69.4
Russian Federation	2007	643	64.5	6.5	18.8	64.5	3.3	2.7	4.2	62.3	66.7
	2011	645	67.2	7.1	17.6	67.2	2.4	1.8	3.9	66.8	67.6
Singapore	2007	730	58.5	8.5	27.7	58.5	4.7	0.3	0.3	53.7	63.6
	2011	915	57.9	6.3	31.1	57.9	4.2	0.0	0.6	53.4	62.2
Slovak Republic	2007	706	68.6	9.7	13.3	68.6	2.7	3.0	2.8	70.6	66.6
	2011	814	71.5	6.4	13.4	71.5	4.0	1.7	2.8	71.7	71.4
Slovenia	2007	630	71.2	8.0	11.0	71.2	2.4	5.0	2.4	69.0	73.2
	2011	629	74.8	9.2	9.9	74.8	1.3	1.6	3.2	76.8	72.9

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

S11_14 (S041102): Earth Science / Applying
Label: In which place will it snow - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	666	78.1	5.4	11.3	78.1	1.7	1.4	2.2	75.0	81.2
	2011	632	77.1	4.5	9.7	77.1	1.7	1.9	5.1	77.1	77.1
Tunisia	2007	589	24.9	14.6	14.8	24.9	4.8	26.1	14.8	25.5	24.4
	2011	668	37.6	17.6	14.1	37.6	8.6	7.7	14.5	37.6	37.5
United States	2007	1131	68.1	12.0	13.2	68.1	4.1	1.3	1.3	66.3	69.9
	2011	1776	69.5	11.8	10.4	69.5	2.2	1.5	4.5	67.3	72.0
International Avg. (25)	2007	15833	63.9	10.1	13.8	63.9	4.2	4.3	3.8	62.9	65.0
	2011	17483	65.8	9.8	13.0	65.8	3.8	3.1	4.5	64.4	67.0
Alberta, Canada	2007	577	79.0	8.6	7.1	79.0	2.3	1.4	1.6	77.8	80.2
	2011	527	78.0	7.9	5.9	78.0	1.3	2.9	4.0	75.7	80.3
Ontario, Canada	2007	492	74.8	8.3	11.5	74.8	2.9	1.0	1.6	72.6	76.9
	2011	657	74.6	7.3	7.8	74.6	1.6	1.9	6.8	70.4	78.7
Quebec, Canada	2007	567	68.9	10.2	10.9	68.9	2.0	4.5	3.5	70.7	67.0
	2011	610	72.8	6.7	9.6	72.8	3.4	4.1	3.4	73.8	71.8
Dubai, UAE	2007	453	48.1	19.9	16.0	48.1	7.3	5.4	3.3	42.5	52.8
	2011	870	50.4	20.7	16.1	50.4	7.2	2.2	3.3	44.1	55.8

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

S13_01 (S041010): Life Science / Knowing
Label: The function of seeds - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	84.4	84.4	5.0	5.8	4.0	0.4	0.3	84.9	83.9
	2011	870	75.0	75.0	9.5	6.4	8.5	0.6	0.0	77.5	72.8
Austria	2007	686	90.7	90.7	2.6	4.5	1.4	0.9	0.0	92.4	89.2
	2011	661	91.7	91.7	1.2	4.4	1.3	1.4	0.0	90.9	92.4
Chinese Taipei	2007	591	91.5	91.5	5.2	1.4	1.0	0.9	0.0	91.0	92.1
	2011	615	91.5	91.5	3.3	2.1	2.9	0.0	0.2	90.4	92.6
Czech Republic	2007	595	91.9	91.9	1.6	2.4	1.2	2.9	0.0	91.7	92.2
	2011	660	94.1	94.1	2.3	0.6	2.3	0.7	0.0	91.6	96.5
Denmark	2007	494	76.8	76.8	7.8	10.2	3.7	1.6	0.0	77.7	75.6
	2011	566	80.2	80.2	5.2	6.2	4.8	3.4	0.1	80.8	79.7
England	2007	617	80.8	80.8	7.2	4.6	6.3	1.1	0.0	84.4	77.8
	2011	486	81.5	81.5	5.1	5.0	7.5	0.7	0.3	80.6	82.4
Georgia	2007	580	76.1	76.1	10.7	8.0	4.2	0.9	0.0	73.7	78.3
	2011	689	79.0	79.0	6.8	7.3	5.0	1.0	0.9	87.3	71.7
Germany	2007	749	90.2	90.2	3.5	4.3	1.0	0.8	0.1	89.8	90.7
	2011	581	93.1	93.1	2.1	3.1	0.8	1.0	0.0	92.8	93.5
Hong Kong SAR	2007	543	89.4	89.4	5.4	2.2	2.9	0.0	0.0	87.4	91.5
	2011	567	87.0	87.0	5.4	2.4	4.1	1.1	0.0	86.7	87.4
Hungary	2007	577	90.9	90.9	4.6	2.3	1.3	0.6	0.3	90.2	91.9
	2011	741	91.3	91.3	3.6	1.5	2.6	0.6	0.4	90.2	92.4
Iran, Islamic Rep. of	2007	553	56.4	56.4	26.0	10.3	4.8	2.4	0.1	54.4	58.4
	2011	814	59.0	59.0	19.1	13.4	5.9	1.8	0.7	57.4	60.6
Italy	2007	633	92.2	92.2	3.1	1.6	2.6	0.4	0.0	92.5	91.9
	2011	600	93.5	93.5	2.0	2.1	2.4	0.0	0.0	93.5	93.5
Japan	2007	643	76.0	76.0	10.5	11.0	2.2	0.2	0.1	78.9	73.5
	2011	629	78.8	78.8	10.8	7.2	2.2	1.0	0.0	77.1	80.4
Kuwait	2007	531	50.4	50.4	16.4	15.5	11.7	3.9	2.1	54.1	45.8
	2011	582	44.8	44.8	18.6	22.1	10.6	3.5	0.4	42.4	47.5
Lithuania	2007	562	87.4	87.4	2.1	4.2	4.2	2.0	0.0	88.7	86.1
	2011	663	85.2	85.2	2.9	8.1	3.0	0.8	0.0	86.9	83.6
Netherlands	2007	475	86.3	86.3	6.0	3.3	4.2	0.1	0.0	82.3	90.0
	2011	464	89.7	89.7	3.9	2.7	2.8	0.9	0.0	89.9	89.2
New Zealand	2007	706	74.0	74.0	10.1	6.3	7.8	1.7	0.1	78.0	69.9
	2011	794	76.3	76.3	7.1	7.8	8.3	0.5	0.1	75.5	77.1
Norway	2007	580	74.3	74.3	4.1	9.4	11.0	1.1	0.1	73.3	75.2
	2011	442	75.5	75.5	2.6	8.2	12.5	0.9	0.3	76.0	75.1
Russian Federation	2007	641	92.0	92.0	2.8	1.8	3.3	0.1	0.0	95.4	88.9
	2011	642	93.5	93.5	3.7	1.1	1.3	0.3	0.0	92.6	94.4
Singapore	2007	711	86.5	86.5	6.6	2.8	3.9	0.1	0.0	86.9	86.2
	2011	903	85.2	85.2	5.5	4.8	4.3	0.1	0.0	84.7	85.8
Slovak Republic	2007	717	88.8	88.8	4.1	3.0	3.6	0.6	0.0	86.1	91.4
	2011	795	90.0	90.0	2.3	3.3	3.7	0.5	0.2	90.3	89.7
Slovenia	2007	629	92.6	92.6	3.2	1.1	2.1	1.0	0.0	93.4	91.8
	2011	641	92.4	92.4	3.3	1.7	2.1	0.6	0.0	92.6	92.2

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

SI3_01 (S041010): Life Science / Knowing
Label: The function of seeds - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	92.1	92.1	1.3	2.3	3.5	0.7	0.1	92.0	92.2
	2011	643	90.9	90.9	1.0	2.4	5.4	0.2	0.2	91.0	90.8
Tunisia	2007	592	36.5	36.5	13.0	19.3	12.5	17.3	1.4	39.4	33.5
	2011	678	44.2	44.2	12.9	17.6	16.6	6.3	2.4	44.5	43.9
United States	2007	1117	80.0	80.0	6.1	6.8	6.7	0.4	0.1	78.1	81.8
	2011	1801	85.2	85.2	4.7	4.3	4.2	1.3	0.4	84.2	86.2
International Avg. (25)	2007	15760	81.1	81.1	6.8	5.8	4.5	1.7	0.2	81.5	80.8
	2011	17527	81.9	81.9	5.8	5.8	5.0	1.2	0.3	81.9	82.0
Alberta, Canada	2007	551	84.0	84.0	5.0	5.1	3.5	2.4	0.0	82.6	85.1
	2011	519	86.2	86.2	3.6	4.1	4.8	1.3	0.0	85.2	87.2
Ontario, Canada	2007	496	80.5	80.5	7.7	6.8	4.8	0.1	0.0	76.8	84.2
	2011	637	81.4	81.4	5.2	5.0	6.5	1.5	0.4	79.3	83.6
Quebec, Canada	2007	568	80.7	80.7	4.7	7.4	4.7	1.8	0.7	79.4	82.5
	2011	615	83.5	83.5	5.6	5.3	4.6	0.9	0.0	81.2	86.1
Dubai, UAE	2007	428	75.4	75.4	8.8	7.6	5.0	2.8	0.3	77.1	73.8
	2011	868	75.8	75.8	10.0	8.2	4.8	1.0	0.3	78.9	73.0

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

S13_02 (S041034): Life Science / Knowing
Label: Exercising and breathing faster - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	60.6	4.4	4.5	30.0	60.6	0.1	0.3	56.1	65.7
	2011	870	59.3	5.1	5.3	28.8	59.3	1.3	0.0	59.5	59.2
Austria	2007	686	70.0	7.2	7.5	14.1	70.0	1.2	0.0	70.0	70.0
	2011	661	73.8	6.7	4.2	13.5	73.8	1.8	0.0	70.4	77.4
Chinese Taipei	2007	591	65.1	4.8	4.1	25.4	65.1	0.6	0.0	62.6	67.4
	2011	615	65.1	3.5	4.3	26.9	65.1	0.0	0.2	64.0	66.0
Czech Republic	2007	595	71.7	6.8	1.3	18.0	71.7	2.3	0.0	66.0	77.6
	2011	660	70.4	6.6	0.8	20.1	70.4	1.9	0.1	65.4	75.2
Denmark	2007	496	70.7	8.8	2.3	16.3	70.7	1.9	0.0	70.8	70.6
	2011	566	73.9	6.3	1.2	15.1	73.9	3.4	0.1	73.5	74.3
England	2007	617	66.9	7.0	2.3	22.5	66.9	1.4	0.0	67.4	66.5
	2011	486	64.5	4.5	3.1	26.2	64.5	1.0	0.7	58.1	70.8
Georgia	2007	580	69.9	15.2	3.9	9.8	69.9	1.2	0.0	68.8	70.9
	2011	689	76.0	8.8	1.9	10.5	76.0	2.0	0.9	77.7	74.4
Germany	2007	749	73.2	6.2	4.4	14.2	73.2	2.0	0.1	71.4	75.0
	2011	581	75.5	5.0	2.9	15.3	75.5	1.2	0.0	74.7	76.4
Hong Kong SAR	2007	543	85.8	3.7	1.7	8.6	85.8	0.2	0.0	82.7	88.9
	2011	567	79.2	4.7	2.2	13.7	79.2	0.2	0.0	76.0	82.0
Hungary	2007	577	76.7	8.3	0.4	12.9	76.7	1.3	0.3	75.5	78.3
	2011	741	77.6	5.7	0.9	14.4	77.6	1.1	0.4	76.1	79.0
Iran, Islamic Rep. of	2007	553	71.3	11.4	4.1	11.6	71.3	1.6	0.1	73.2	69.4
	2011	814	70.7	8.6	2.7	14.2	70.7	2.7	1.0	76.0	65.3
Italy	2007	635	73.3	4.2	1.9	19.7	73.3	0.9	0.0	71.9	74.8
	2011	600	74.3	2.8	1.6	20.6	74.3	0.8	0.0	70.2	78.4
Japan	2007	643	67.8	12.5	5.0	13.3	67.8	1.4	0.1	63.3	71.9
	2011	629	70.8	10.8	7.0	10.7	70.8	0.4	0.2	65.9	75.7
Kuwait	2007	531	40.7	23.0	9.7	19.8	40.7	4.3	2.4	48.7	31.1
	2011	582	40.3	26.3	7.4	20.3	40.3	5.1	0.6	43.0	37.1
Lithuania	2007	562	85.4	5.3	0.7	5.3	85.4	3.3	0.0	85.0	85.8
	2011	663	80.3	2.6	1.4	15.0	80.3	0.7	0.0	77.6	82.8
Netherlands	2007	475	78.4	7.8	2.8	10.3	78.4	0.7	0.0	73.8	82.6
	2011	464	81.7	7.0	2.6	7.8	81.7	0.6	0.2	82.0	81.2
New Zealand	2007	706	59.2	4.5	4.0	30.7	59.2	1.3	0.3	57.5	61.0
	2011	794	60.9	7.3	5.0	25.9	60.9	0.8	0.1	60.1	61.7
Norway	2007	580	55.2	3.8	9.7	29.9	55.2	1.3	0.1	55.6	54.8
	2011	442	59.3	4.5	6.7	27.0	59.3	2.2	0.3	59.6	58.9
Russian Federation	2007	641	88.2	3.2	1.6	6.3	88.2	0.6	0.0	86.4	89.8
	2011	642	84.5	4.8	1.3	8.6	84.5	0.7	0.0	84.1	85.0
Singapore	2007	711	94.2	1.7	0.8	3.2	94.2	0.1	0.0	94.6	93.7
	2011	903	85.0	4.4	2.6	7.9	85.0	0.2	0.0	83.6	86.4
Slovak Republic	2007	717	78.4	3.4	0.9	16.1	78.4	1.2	0.0	77.2	79.5
	2011	795	71.8	5.7	2.8	18.7	71.8	0.8	0.2	67.2	77.0
Slovenia	2007	629	71.0	10.9	2.1	14.0	71.0	2.0	0.0	71.3	70.8
	2011	638	69.3	14.6	1.4	14.0	69.3	0.6	0.1	68.0	70.7

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

S13_02 (S041034): Life Science / Knowing
Label: Exercising and breathing faster - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	66.5	8.3	0.4	23.8	66.5	0.9	0.1	64.4	68.6
	2011	643	64.4	8.1	1.2	25.6	64.4	0.5	0.2	60.8	67.4
Tunisia	2007	592	49.8	9.8	11.4	13.1	49.8	14.1	1.8	54.3	45.4
	2011	690	56.1	9.3	9.8	15.6	56.1	6.4	2.9	55.0	57.0
United States	2007	1117	64.5	5.5	4.1	25.6	64.5	0.3	0.1	62.2	66.9
	2011	1801	65.8	4.2	3.1	25.6	65.8	0.7	0.6	63.9	67.9

International Avg. (25)	2007	15764	70.2	7.5	3.7	16.6	70.2	1.8	0.2	69.2	71.1
	2011	17536	70.0	7.1	3.3	17.7	70.0	1.5	0.3	68.5	71.5

Alberta, Canada	2007	551	61.9	5.2	2.7	28.0	61.9	2.2	0.0	58.4	64.9
	2011	519	58.4	5.1	4.3	30.8	58.4	1.1	0.3	55.3	61.4
Ontario, Canada	2007	496	59.0	6.1	1.5	33.2	59.0	0.2	0.0	61.8	56.3
	2011	637	60.3	3.7	3.3	30.3	60.3	2.0	0.5	58.8	61.7
Quebec, Canada	2007	568	56.6	4.8	6.5	29.6	56.6	1.8	0.7	52.7	61.6
	2011	615	56.7	4.0	4.5	34.1	56.7	0.8	0.0	54.7	59.0
Dubai, UAE	2007	428	64.4	11.5	5.2	16.4	64.4	2.3	0.3	67.7	61.4
	2011	868	62.8	11.3	3.7	20.7	62.8	1.3	0.3	67.1	58.8

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

S13_03 (S041017): Life Science / Applying
Label: Animals take care of their young - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	47.2	47.2	4.1	45.3	2.5	0.5	0.3	46.9	47.6
	2011	870	48.9	48.9	4.0	43.0	2.9	1.2	0.0	51.4	46.5
Austria	2007	686	49.7	49.7	5.3	37.5	4.8	2.7	0.0	52.5	47.4
	2011	661	52.5	52.5	5.6	34.0	4.3	3.6	0.0	50.3	54.7
Chinese Taipei	2007	591	50.1	50.1	3.6	42.6	2.5	1.1	0.0	52.0	48.5
	2011	615	54.4	54.4	2.1	42.5	0.9	0.0	0.2	52.0	56.4
Czech Republic	2007	595	46.5	46.5	2.3	46.1	1.1	4.1	0.0	46.9	46.0
	2011	660	45.0	45.0	4.1	45.8	2.0	3.0	0.1	45.3	44.7
Denmark	2007	494	48.6	48.6	2.8	44.4	3.2	0.9	0.1	52.1	44.1
	2011	566	46.1	46.1	4.2	44.9	1.4	3.3	0.1	44.8	47.4
England	2007	617	31.2	31.2	4.7	59.9	2.2	1.8	0.1	31.0	31.4
	2011	486	40.2	40.2	2.6	52.0	3.3	1.2	0.7	41.5	39.0
Georgia	2007	580	31.6	31.6	14.7	42.8	6.7	4.1	0.1	33.5	29.8
	2011	689	51.0	51.0	8.7	29.2	6.5	3.6	1.0	50.3	51.5
Germany	2007	749	48.1	48.1	1.8	46.5	1.3	2.1	0.2	51.6	44.5
	2011	581	50.5	50.5	2.5	42.9	1.5	2.6	0.0	48.1	52.8
Hong Kong SAR	2007	543	44.6	44.6	11.0	38.6	5.8	0.0	0.0	41.0	48.3
	2011	567	37.8	37.8	10.0	46.5	4.9	0.8	0.0	35.9	39.5
Hungary	2007	577	46.6	46.6	3.6	46.7	1.2	1.6	0.3	48.5	44.0
	2011	741	45.1	45.1	4.7	47.3	1.1	1.6	0.4	44.7	45.5
Iran, Islamic Rep. of	2007	553	38.0	38.0	9.9	41.8	6.8	3.3	0.1	40.8	35.3
	2011	814	43.8	43.8	6.3	40.7	6.3	1.8	1.2	41.6	46.0
Italy	2007	630	45.9	45.9	2.9	48.2	2.1	0.9	0.0	43.7	48.4
	2011	600	42.4	42.4	4.2	49.6	2.8	1.2	0.0	44.1	40.6
Japan	2007	643	53.5	53.5	5.0	37.3	3.0	1.1	0.1	61.5	46.4
	2011	629	50.6	50.6	4.8	42.3	1.3	0.7	0.2	51.5	49.8
Kuwait	2007	531	35.4	35.4	10.2	38.5	7.4	6.1	2.4	36.1	34.6
	2011	579	27.2	27.2	14.3	36.7	12.7	8.3	0.8	26.7	27.7
Lithuania	2007	562	52.7	52.7	4.3	38.6	2.1	2.3	0.0	51.9	53.4
	2011	663	49.4	49.4	2.4	43.2	2.5	2.5	0.0	51.1	47.9
Netherlands	2007	475	43.4	43.4	1.2	53.5	1.4	0.5	0.0	42.3	44.3
	2011	464	57.8	57.8	3.4	37.5	0.2	0.9	0.2	58.1	57.5
New Zealand	2007	706	42.7	42.7	4.4	45.6	5.9	1.2	0.3	46.3	39.0
	2011	794	42.3	42.3	4.9	47.7	4.7	0.4	0.1	40.5	44.1
Norway	2007	580	50.3	50.3	4.3	39.6	4.1	1.5	0.3	48.1	52.2
	2011	442	47.7	47.7	9.6	37.5	3.4	1.3	0.5	52.3	43.2
Russian Federation	2007	641	51.4	51.4	5.3	38.3	3.9	1.2	0.0	56.8	46.4
	2011	642	51.6	51.6	3.6	41.7	2.6	0.4	0.0	48.4	54.5
Singapore	2007	711	56.9	56.9	1.9	37.7	3.3	0.1	0.0	49.8	63.3
	2011	903	69.1	69.1	1.8	27.1	1.7	0.3	0.0	68.8	69.5
Slovak Republic	2007	717	41.1	41.1	6.8	46.3	2.8	2.9	0.0	39.8	42.5
	2011	795	47.4	47.4	3.5	45.9	1.4	1.5	0.3	47.3	47.5
Slovenia	2007	629	44.3	44.3	1.7	50.0	2.6	1.4	0.0	43.1	45.6
	2011	640	45.1	45.1	2.6	48.4	1.9	1.9	0.1	43.9	46.2

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

S13_03 (S041017): Life Science / Applying

Label: Animals take care of their young - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	45.5	45.5	4.3	45.7	3.2	1.2	0.1	46.0	45.1
	2011	643	45.2	45.2	3.0	48.9	1.6	1.0	0.2	40.1	49.2
Tunisia	2007	592	34.7	34.7	7.8	30.6	7.8	17.1	1.9	36.1	33.3
	2011	674	37.3	37.3	6.9	35.4	7.0	10.2	3.2	42.5	33.3
United States	2007	1117	45.5	45.5	3.7	47.1	3.0	0.7	0.1	43.6	47.6
	2011	1801	52.2	52.2	2.2	41.4	1.8	1.7	0.7	53.3	51.1
International Avg. (25)	2007	15757	45.0	45.0	5.1	43.6	3.6	2.4	0.3	45.7	44.4
	2011	17519	47.2	47.2	4.9	42.1	3.2	2.2	0.4	47.0	47.4
Alberta, Canada	2007	551	50.0	50.0	3.7	39.9	3.3	3.0	0.0	52.6	47.8
	2011	519	51.7	51.7	2.4	40.9	3.0	1.6	0.4	50.0	53.2
Ontario, Canada	2007	496	47.3	47.3	3.4	45.3	3.5	0.6	0.0	47.0	47.5
	2011	637	44.3	44.3	3.7	45.7	3.6	2.2	0.5	46.1	42.6
Quebec, Canada	2007	568	47.1	47.1	3.3	43.9	2.4	2.7	0.7	47.6	46.5
	2011	615	46.1	46.1	2.6	48.0	2.3	1.0	0.0	47.0	45.1
Dubai, UAE	2007	428	35.9	35.9	5.6	48.6	6.2	3.5	0.3	32.8	38.8
	2011	868	36.3	36.3	6.5	50.0	4.7	2.0	0.4	37.0	35.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S13_04 (S041124): Life Science / Applying
Label: Advantage for monarch butterfly - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	46.7	46.7	10.3	12.8	29.2	0.6	0.4	46.7	46.7
	2011	870	47.5	47.5	12.5	14.9	23.6	1.5	0.0	46.9	48.1
Austria	2007	686	46.4	46.4	9.0	10.3	27.4	6.9	0.0	43.5	48.7
	2011	661	50.1	50.1	5.6	10.7	25.0	8.6	0.0	49.5	50.7
Chinese Taipei	2007	591	46.3	46.3	9.9	24.9	17.9	1.0	0.0	46.9	45.6
	2011	615	47.3	47.3	11.9	23.1	17.2	0.3	0.2	43.8	50.2
Czech Republic	2007	596	60.4	60.4	4.5	11.6	18.7	4.8	0.0	56.8	64.3
	2011	660	62.8	62.8	6.0	12.1	16.2	2.7	0.1	66.1	59.7
Denmark	2007	494	51.1	51.1	10.1	22.0	14.3	2.4	0.1	50.8	51.5
	2011	566	55.4	55.4	9.2	17.5	14.8	3.1	0.1	54.5	56.3
England	2007	617	55.9	55.9	7.3	13.5	21.7	1.4	0.1	51.3	59.6
	2011	486	52.1	52.1	9.5	14.2	22.0	1.5	0.7	51.2	53.0
Georgia	2007	580	29.4	29.4	17.3	16.5	31.8	5.0	0.1	31.3	27.5
	2011	689	40.1	40.1	12.3	16.1	26.2	4.2	1.0	48.7	32.6
Germany	2007	749	47.0	47.0	9.6	10.5	27.9	4.8	0.2	45.3	48.8
	2011	581	50.7	50.7	7.1	9.9	28.4	3.9	0.0	51.4	50.1
Hong Kong SAR	2007	543	34.0	34.0	8.6	41.5	15.5	0.5	0.0	28.8	39.2
	2011	567	36.2	36.2	12.3	36.9	12.7	1.8	0.0	37.2	35.4
Hungary	2007	577	50.1	50.1	7.4	15.2	23.2	3.7	0.3	46.6	54.7
	2011	741	59.3	59.3	3.2	14.4	21.3	1.4	0.4	59.0	59.5
Iran, Islamic Rep. of	2007	553	29.9	29.9	22.5	24.5	16.8	6.0	0.3	32.1	27.8
	2011	815	34.2	34.2	17.3	21.0	21.0	5.3	1.2	35.4	32.9
Italy	2007	633	47.7	47.7	7.1	13.1	28.1	4.1	0.0	45.1	50.5
	2011	600	44.9	44.9	7.5	14.4	30.3	3.0	0.0	45.3	44.4
Japan	2007	643	55.7	55.7	10.6	14.6	19.0	0.0	0.1	56.5	55.0
	2011	629	50.1	50.1	12.4	16.0	20.1	1.1	0.2	43.9	56.3
Kuwait	2007	531	25.2	25.2	18.4	19.4	26.5	8.0	2.4	23.2	27.7
	2011	579	28.6	28.6	15.9	25.9	23.2	5.6	0.8	29.7	27.4
Lithuania	2007	562	51.0	51.0	9.3	17.0	18.4	4.3	0.0	52.5	49.4
	2011	663	55.0	55.0	9.0	16.7	16.2	3.1	0.0	50.8	58.8
Netherlands	2007	475	52.3	52.3	5.1	15.3	25.4	1.8	0.0	51.7	52.9
	2011	464	55.4	55.4	6.2	13.1	24.0	1.1	0.2	55.6	55.3
New Zealand	2007	706	47.6	47.6	14.9	11.9	23.8	1.5	0.3	47.5	47.6
	2011	794	50.9	50.9	13.8	13.0	21.9	0.3	0.1	47.7	54.2
Norway	2007	580	32.4	32.4	21.9	20.6	22.4	2.4	0.3	33.7	31.3
	2011	442	37.9	37.9	15.5	24.6	19.1	2.4	0.5	32.4	43.1
Russian Federation	2007	641	45.3	45.3	8.7	24.4	20.2	1.3	0.0	47.0	43.7
	2011	642	49.8	49.8	6.8	24.8	17.4	1.2	0.0	47.6	51.8
Singapore	2007	711	39.0	39.0	7.2	16.0	37.4	0.3	0.0	35.7	42.0
	2011	903	43.0	43.0	8.3	15.0	33.6	0.1	0.0	41.4	44.6
Slovak Republic	2007	717	56.1	56.1	9.4	13.6	18.2	2.7	0.0	51.7	60.4
	2011	795	62.6	62.6	8.2	13.6	14.2	1.0	0.3	61.9	63.4
Slovenia	2007	629	37.2	37.2	12.3	18.6	26.5	5.3	0.0	40.2	34.3
	2011	641	40.6	40.6	6.6	23.0	26.0	3.5	0.3	39.4	41.7

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

S13_04 (S041124): Life Science / Applying
Label: Advantage for monarch butterfly - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	49.4	49.4	10.4	13.8	24.4	2.0	0.1	49.5	49.2
	2011	643	50.9	50.9	9.1	13.7	24.3	1.8	0.2	53.9	48.6
Tunisia	2007	592	25.9	25.9	16.2	20.3	17.2	18.2	2.2	25.3	26.5
	2011	684	26.0	26.0	20.4	24.2	17.9	8.1	3.4	31.9	21.3
United States	2007	1117	43.1	43.1	10.6	16.4	29.3	0.5	0.1	40.6	45.8
	2011	1801	44.8	44.8	9.4	16.8	27.0	1.3	0.7	43.6	46.2
International Avg. (25)	2007	15761	44.2	44.2	11.1	17.5	23.3	3.6	0.3	43.2	45.2
	2011	17531	47.1	47.1	10.2	17.8	21.7	2.7	0.4	46.8	47.4
Alberta, Canada	2007	551	44.9	44.9	8.5	17.4	27.1	2.2	0.0	44.0	45.7
	2011	519	52.4	52.4	10.5	15.7	19.9	1.2	0.4	48.9	55.6
Ontario, Canada	2007	496	42.4	42.4	11.4	17.3	28.4	0.4	0.0	36.7	48.0
	2011	637	49.9	49.9	10.2	14.6	23.1	1.6	0.6	47.3	52.6
Quebec, Canada	2007	568	34.2	34.2	12.8	22.5	26.8	3.0	0.7	30.8	38.5
	2011	615	41.9	41.9	13.7	19.0	23.2	2.2	0.0	41.9	41.8
Dubai, UAE	2007	428	35.4	35.4	15.2	16.4	28.2	4.5	0.3	36.1	34.8
	2011	868	42.4	42.4	13.0	15.2	26.9	2.1	0.4	40.7	44.0

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

S13_05 (S041186): Physical Science / Applying
Label: Freezing point of water - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	20.2	75.7	3.6	0.4	20.2	16.4	24.5
	2011	870	16.2	79.7	3.9	0.2	16.2	13.7	18.7
Austria	2007	686	41.7	49.0	9.3	0.0	41.7	38.2	44.6
	2011	661	34.1	58.1	7.7	0.2	34.1	25.4	42.9
Chinese Taipei	2007	591	16.8	77.2	6.1	0.0	16.8	15.9	17.5
	2011	615	13.5	80.3	6.0	0.2	13.5	14.2	12.9
Czech Republic	2007	596	44.4	50.2	5.4	0.0	44.4	36.8	52.3
	2011	660	45.4	50.4	4.1	0.1	45.4	40.7	50.0
Denmark	2007	496	40.9	53.8	5.1	0.1	40.9	32.9	51.7
	2011	566	62.2	31.0	6.7	0.1	62.2	61.6	62.8
England	2007	617	40.2	57.4	2.2	0.1	40.2	37.7	42.3
	2011	486	30.6	67.0	1.6	0.9	30.6	26.2	34.9
Georgia	2007	580	15.7	48.8	35.2	0.3	15.7	14.9	16.5
	2011	689	18.9	53.0	26.8	1.3	18.9	19.4	18.4
Germany	2007	749	43.4	50.2	6.2	0.2	43.4	41.5	45.3
	2011	581	48.0	47.2	4.8	0.0	48.0	45.5	50.6
Hong Kong SAR	2007	543	19.0	78.9	2.1	0.0	19.0	15.8	22.3
	2011	567	22.7	73.8	3.5	0.0	22.7	17.6	27.2
Hungary	2007	577	41.4	55.4	2.9	0.3	41.4	35.4	49.1
	2011	740	44.7	52.9	2.0	0.4	44.7	40.2	48.7
Iran, Islamic Rep. of	2007	553	8.5	67.7	23.6	0.3	8.5	8.0	8.9
	2011	815	11.1	68.3	18.8	1.8	11.1	11.8	10.4
Italy	2007	635	26.5	61.3	12.1	0.0	26.5	25.7	27.5
	2011	600	17.2	72.6	9.6	0.5	17.2	14.7	19.8
Japan	2007	643	67.1	31.4	1.5	0.1	67.1	68.3	66.0
	2011	629	77.9	20.1	1.7	0.2	77.9	77.5	78.4
Kuwait	2007	531	7.5	57.9	31.9	2.7	7.5	8.6	6.2
	2011	586	15.2	59.3	24.3	1.3	15.2	16.6	13.6
Lithuania	2007	562	7.6	85.2	7.2	0.0	7.6	8.8	6.3
	2011	663	9.4	86.3	4.1	0.1	9.4	5.1	13.4
Netherlands	2007	475	24.9	73.7	1.4	0.0	24.9	20.2	29.1
	2011	464	35.4	61.9	2.5	0.2	35.4	34.3	37.3
New Zealand	2007	706	14.2	80.0	5.6	0.3	14.2	13.3	15.1
	2011	794	17.8	79.0	3.1	0.1	17.8	16.8	18.8
Norway	2007	580	33.9	59.6	6.3	0.3	33.9	30.9	36.6
	2011	442	39.8	53.6	5.9	0.7	39.8	38.2	41.3
Russian Federation	2007	641	27.6	68.4	3.9	0.0	27.6	26.7	28.6
	2011	642	31.8	64.8	3.2	0.2	31.8	27.5	35.9
Singapore	2007	711	81.1	18.5	0.4	0.0	81.1	78.8	83.2
	2011	903	50.2	49.1	0.7	0.0	50.2	46.1	54.3
Slovak Republic	2007	717	30.4	63.8	5.8	0.0	30.4	27.0	33.8
	2011	795	22.5	74.2	3.0	0.3	22.5	20.8	24.4
Slovenia	2007	629	20.4	74.5	5.1	0.0	20.4	18.6	22.1
	2011	641	19.1	75.8	4.8	0.3	19.1	18.1	20.0

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

S13_05 (S041186): Physical Science / Applying
Label: Freezing point of water - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	42.5	53.8	3.5	0.1	42.5	36.6	48.7
	2011	643	45.3	49.1	5.5	0.2	45.3	44.0	46.3
Tunisia	2007	592	6.8	67.2	23.3	2.6	6.8	6.7	6.9
	2011	703	5.7	70.9	19.6	3.8	5.7	6.6	5.1
United States	2007	1117	20.4	77.9	1.6	0.1	20.4	19.3	21.6
	2011	1801	22.2	75.0	1.8	0.9	22.2	19.7	25.0

International Avg. (25)	2007	15765	29.7	61.5	8.5	0.3	29.7	27.3	32.3
	2011	17556	30.3	62.1	7.0	0.6	30.3	28.1	32.4

Alberta, Canada	2007	551	39.1	55.6	5.3	0.0	39.1	32.8	44.3
	2011	519	33.8	63.5	2.2	0.4	33.8	29.2	38.3
Ontario, Canada	2007	496	31.0	66.9	2.1	0.0	31.0	23.8	38.1
	2011	637	36.1	58.9	4.3	0.6	36.1	33.9	38.4
Quebec, Canada	2007	568	22.8	69.6	7.0	0.7	22.8	21.1	24.9
	2011	615	24.4	72.1	3.5	0.0	24.4	19.8	29.5
Dubai, UAE	2007	428	26.2	57.0	15.7	1.1	26.2	25.9	26.5
	2011	868	21.5	65.0	13.1	0.5	21.5	20.8	22.1

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

S13_06 (S041037): Life Science / Reasoning

Label: Pos. or neg. effect of activity - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	55.5	21.1	22.0	1.0	0.4	76.6	55.5	53.6	57.6
	2011	870	49.4	21.7	26.9	1.6	0.4	71.1	49.4	53.6	45.4
Austria	2007	686	36.4	23.5	34.6	5.6	0.0	59.9	36.4	32.9	39.3
	2011	661	43.1	25.5	27.3	3.9	0.2	68.6	43.1	35.6	50.8
Chinese Taipei	2007	591	45.5	29.0	25.2	0.3	0.0	74.5	45.5	47.0	44.1
	2011	615	47.7	29.7	21.9	0.5	0.2	77.4	47.7	48.4	47.1
Czech Republic	2007	594	29.0	22.5	38.8	9.7	0.0	51.5	29.0	25.8	32.4
	2011	660	41.2	22.6	30.2	5.8	0.1	63.8	41.2	36.0	46.3
Denmark	2007	496	30.7	23.3	40.0	5.8	0.1	54.0	30.7	30.5	31.1
	2011	566	37.3	32.1	26.6	3.8	0.1	69.4	37.3	35.8	38.8
England	2007	617	56.6	24.6	16.9	1.7	0.1	81.2	56.6	60.1	53.8
	2011	486	57.3	24.8	15.8	1.3	0.9	82.0	57.3	55.6	58.9
Georgia	2007	580	10.4	17.2	42.6	29.0	0.8	27.6	10.4	10.1	10.8
	2011	685	20.9	24.0	40.8	12.2	2.1	44.9	20.9	23.4	18.8
Germany	2007	749	37.1	22.6	35.7	4.4	0.2	59.7	37.1	30.9	43.7
	2011	581	45.8	24.9	25.6	3.7	0.0	70.7	45.8	42.5	49.1
Hong Kong SAR	2007	543	36.0	36.2	27.7	0.2	0.0	72.2	36.0	32.8	39.3
	2011	567	40.4	35.1	23.3	1.3	0.0	75.5	40.4	43.8	37.4
Hungary	2007	577	44.4	22.4	30.1	2.7	0.4	66.8	44.4	44.3	44.6
	2011	741	50.3	21.3	24.0	3.8	0.6	71.7	50.3	48.9	51.6
Iran, Islamic Rep. of	2007	553	29.7	17.0	44.0	9.0	0.3	46.7	29.7	33.3	26.1
	2011	815	38.2	19.4	32.1	8.0	2.3	57.6	38.2	36.3	40.1
Italy	2007	635	40.9	31.1	25.2	2.6	0.2	72.0	40.9	42.6	39.0
	2011	600	42.0	31.9	23.8	1.6	0.6	73.9	42.0	42.7	41.4
Japan	2007	643	53.0	30.8	15.4	0.7	0.1	83.8	53.0	51.5	54.4
	2011	629	55.5	30.8	12.9	0.4	0.4	86.3	55.5	54.1	56.8
Kuwait	2007	531	3.5	7.2	57.9	28.3	3.2	10.6	3.5	4.7	2.0
	2011	585	7.3	9.8	59.2	21.2	2.6	17.1	7.3	9.0	5.3
Lithuania	2007	562	32.3	31.7	35.0	1.0	0.0	64.0	32.3	35.0	29.5
	2011	663	35.3	28.2	34.4	2.0	0.1	63.4	35.3	28.1	41.8
Netherlands	2007	475	51.8	24.5	22.8	0.9	0.0	76.3	51.8	48.6	54.7
	2011	464	54.9	30.4	14.2	0.2	0.2	85.3	54.9	56.3	53.3
New Zealand	2007	706	41.8	24.7	30.7	2.2	0.5	66.5	41.8	41.8	41.8
	2011	794	45.6	23.3	29.0	2.0	0.1	68.9	45.6	44.2	47.0
Norway	2007	580	31.4	26.5	37.4	4.5	0.3	57.9	31.4	32.2	30.6
	2011	442	35.5	28.3	32.6	2.7	0.8	63.8	35.5	39.6	31.6
Russian Federation	2007	641	49.0	21.9	22.6	6.4	0.0	70.9	49.0	47.7	50.2
	2011	642	49.3	28.0	17.1	5.3	0.3	77.3	49.3	49.2	49.3
Singapore	2007	711	34.3	21.8	43.6	0.4	0.0	56.1	34.3	31.6	36.7
	2011	903	37.9	27.7	34.0	0.2	0.1	65.7	37.9	37.4	38.4
Slovak Republic	2007	717	37.1	21.4	34.0	7.0	0.4	58.5	37.1	35.6	38.6
	2011	795	38.1	29.3	28.1	4.2	0.3	67.4	38.1	36.1	40.4
Slovenia	2007	629	28.4	34.0	35.4	2.1	0.1	62.4	28.4	28.9	28.0
	2011	641	44.2	28.3	23.6	3.5	0.4	72.5	44.2	41.9	46.5

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

S13_06 (S041037): Life Science / Reasoning

Label: Pos. or neg. effect of activity - Points: 2

COUNTRY	YEAR	N	20 %	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	64.6	22.0	12.7	0.6	0.1	86.6	64.6	67.1	62.1
	2011	643	65.6	23.4	9.2	1.4	0.4	89.1	65.6	60.5	69.7
Tunisia	2007	592	6.9	16.3	70.0	4.1	2.7	23.2	6.9	7.0	6.8
	2011	703	9.2	14.8	63.0	6.8	6.2	24.0	9.2	7.7	10.3
United States	2007	1117	47.6	17.8	31.7	2.7	0.1	65.4	47.6	45.4	49.9
	2011	1801	58.2	17.8	21.2	1.7	1.1	76.0	58.2	58.5	57.9
International Avg. (25)	2007	15763	37.4	23.6	33.3	5.3	0.4	61.0	37.4	36.8	37.9
	2011	17552	42.0	25.3	27.9	4.0	0.8	67.3	42.0	41.0	43.0
Alberta, Canada	2007	551	57.8	18.4	21.1	2.7	0.0	76.2	57.8	61.4	54.7
	2011	519	66.3	17.6	14.0	1.7	0.4	83.9	66.3	64.2	68.3
Ontario, Canada	2007	496	54.1	17.6	24.9	3.4	0.0	71.6	54.1	52.8	55.3
	2011	637	58.4	19.7	19.5	1.3	1.0	78.1	58.4	59.0	57.8
Quebec, Canada	2007	568	59.1	24.2	15.2	0.8	0.7	83.3	59.1	59.6	58.5
	2011	615	64.4	23.7	10.8	1.1	0.0	88.1	64.4	64.5	64.3
Dubai, UAE	2007	428	27.4	17.9	46.9	6.7	1.1	45.3	27.4	27.2	27.6
	2011	868	30.3	22.5	42.2	4.3	0.6	52.9	30.3	31.9	28.9

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

S13_07 (S041119): Physical Science / Applying
Label: Direction of gravity - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	72.3	16.5	6.0	72.3	3.9	0.8	0.4	66.7	78.6
	2011	870	70.6	16.8	4.5	70.6	5.2	2.2	0.6	72.1	69.2
Austria	2007	686	83.0	10.0	2.6	83.0	1.5	2.7	0.2	78.5	86.8
	2011	661	76.6	12.5	3.4	76.6	3.6	3.8	0.2	71.3	82.1
Chinese Taipei	2007	591	89.9	7.1	1.5	89.9	0.5	1.1	0.0	90.5	89.3
	2011	615	87.8	9.2	1.8	87.8	1.0	0.0	0.2	86.6	88.9
Czech Republic	2007	596	59.7	22.1	5.0	59.7	4.8	7.8	0.7	53.6	66.1
	2011	660	64.7	22.3	3.1	64.7	3.9	5.8	0.1	61.8	67.6
Denmark	2007	496	60.5	28.2	5.3	60.5	1.5	3.6	0.9	58.0	63.9
	2011	566	66.8	22.5	3.8	66.8	2.0	4.5	0.5	63.6	69.9
England	2007	617	79.6	13.4	1.8	79.6	3.1	1.9	0.1	79.9	79.4
	2011	486	73.8	15.5	3.4	73.8	2.9	3.5	0.9	67.6	80.0
Georgia	2007	580	53.1	26.1	5.5	53.1	7.9	6.2	1.2	55.0	51.3
	2011	685	56.5	17.7	8.2	56.5	10.3	4.8	2.5	59.1	54.3
Germany	2007	749	78.0	14.0	4.0	78.0	1.5	2.3	0.2	72.3	84.1
	2011	581	79.2	11.8	3.1	79.2	1.9	3.9	0.0	75.4	83.2
Hong Kong SAR	2007	543	89.5	7.6	0.9	89.5	1.6	0.4	0.0	89.0	89.9
	2011	567	87.6	5.8	1.7	87.6	3.4	1.5	0.0	83.8	90.9
Hungary	2007	577	57.3	28.8	5.0	57.3	2.7	5.3	0.9	51.3	65.2
	2011	741	58.7	27.5	7.4	58.7	3.6	1.9	0.9	53.6	63.3
Iran, Islamic Rep. of	2007	553	80.7	9.5	3.6	80.7	4.3	1.5	0.3	85.4	76.0
	2011	815	78.2	7.6	4.1	78.2	3.6	3.2	3.2	78.9	77.6
Italy	2007	634	76.8	15.5	2.8	76.8	3.1	1.7	0.2	72.9	81.1
	2011	600	71.0	16.1	5.4	71.0	2.8	4.0	0.6	69.3	72.8
Japan	2007	643	64.7	19.3	10.0	64.7	5.1	0.9	0.1	61.6	67.4
	2011	629	68.0	17.4	8.6	68.0	3.1	2.4	0.4	64.9	71.0
Kuwait	2007	531	64.4	9.0	6.3	64.4	11.4	5.2	3.7	72.0	55.2
	2011	582	58.0	9.5	6.5	58.0	17.2	5.9	2.9	64.8	50.1
Lithuania	2007	562	86.7	5.7	1.8	86.7	3.9	2.0	0.0	85.5	87.8
	2011	663	88.0	5.9	1.4	88.0	3.7	0.7	0.2	88.0	88.1
Netherlands	2007	475	64.8	26.0	6.3	64.8	2.5	0.4	0.0	60.8	68.3
	2011	464	70.2	17.3	6.5	70.2	2.8	2.8	0.4	67.8	73.9
New Zealand	2007	706	67.5	17.0	6.0	67.5	6.6	2.2	0.6	66.6	68.4
	2011	794	69.2	17.4	6.7	69.2	4.8	1.8	0.1	68.7	69.7
Norway	2007	580	67.2	20.4	6.3	67.2	2.9	2.0	1.2	64.0	70.0
	2011	442	63.4	22.7	6.7	63.4	3.4	2.5	1.4	69.5	57.5
Russian Federation	2007	641	89.4	4.7	3.2	89.4	1.5	1.2	0.0	89.4	89.4
	2011	642	90.7	5.1	1.6	90.7	2.1	0.2	0.3	88.0	93.2
Singapore	2007	711	68.8	20.3	7.6	68.8	3.3	0.0	0.0	65.5	71.9
	2011	902	65.9	22.9	7.3	65.9	3.0	0.8	0.1	59.9	71.9
Slovak Republic	2007	717	83.9	9.0	2.3	83.9	2.5	1.9	0.4	81.9	85.9
	2011	795	79.4	14.6	2.9	79.4	2.1	0.7	0.3	76.7	82.3
Slovenia	2007	629	84.2	3.8	2.1	84.2	6.7	2.7	0.4	82.2	86.2
	2011	639	86.0	4.4	1.7	86.0	6.2	1.1	0.5	82.5	89.5

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

S13_07 (S041119): Physical Science / Applying
Label: Direction of gravity - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	59.0	17.7	14.3	59.0	7.1	1.9	0.1	53.4	64.8
	2011	643	53.9	20.5	17.3	53.9	4.9	3.0	0.4	47.0	59.4
Tunisia	2007	593	62.8	6.7	5.7	62.8	8.4	13.3	3.1	63.9	61.7
	2011	695	63.8	6.2	8.3	63.8	6.7	7.9	7.1	71.3	57.9
United States	2007	1117	69.1	16.8	6.8	69.1	5.7	1.4	0.1	66.1	72.2
	2011	1801	70.5	16.9	4.8	70.5	5.0	1.5	1.2	68.6	72.6
International Avg. (25)	2007	15765	72.5	15.0	4.9	72.5	4.2	2.8	0.6	70.6	74.4
	2011	17538	71.9	14.6	5.2	71.9	4.4	2.8	1.0	70.4	73.5
Alberta, Canada	2007	551	74.1	16.8	2.6	74.1	3.7	2.8	0.0	70.6	76.9
	2011	519	77.6	10.8	3.8	77.6	6.1	1.1	0.5	73.8	81.2
Ontario, Canada	2007	496	73.2	15.4	5.6	73.2	3.9	1.9	0.0	66.4	79.9
	2011	637	76.7	12.9	2.5	76.7	3.7	3.0	1.1	74.9	78.6
Quebec, Canada	2007	568	60.7	26.2	6.8	60.7	3.4	2.3	0.7	56.4	66.3
	2011	615	67.8	22.0	4.0	67.8	3.3	2.8	0.0	63.8	72.2
Dubai, UAE	2007	428	62.6	16.5	6.9	62.6	9.0	3.8	1.2	62.2	63.0
	2011	868	62.6	18.9	5.9	62.6	9.0	2.7	0.9	60.8	64.3

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

S13_08 (S041105): Earth Science / Knowing

Label: Evidence for existence of animals - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	74.8	8.2	9.8	6.1	74.8	0.6	0.5	70.0	80.1
	2011	870	70.3	6.9	14.0	6.4	70.3	1.4	1.0	66.8	73.5
Austria	2007	686	74.4	5.8	13.2	4.2	74.4	2.3	0.2	73.8	74.9
	2011	661	74.4	7.0	10.5	4.0	74.4	3.8	0.2	72.8	76.0
Chinese Taipei	2007	591	79.9	4.1	11.0	3.7	79.9	1.2	0.0	75.3	84.2
	2011	615	85.5	3.6	6.1	4.5	85.5	0.2	0.2	85.5	85.5
Czech Republic	2007	595	66.1	7.7	17.9	6.0	66.1	1.7	0.7	61.0	71.4
	2011	660	75.3	5.5	12.4	4.7	75.3	2.0	0.1	74.7	76.0
Denmark	2007	496	60.9	4.8	8.3	19.5	60.9	4.9	1.7	56.9	66.2
	2011	566	67.9	5.2	8.4	13.4	67.9	4.0	1.0	67.7	68.2
England	2007	617	72.7	6.0	12.8	6.4	72.7	1.9	0.1	73.7	71.8
	2011	486	71.9	7.4	11.1	6.6	71.9	1.9	1.1	69.4	74.4
Georgia	2007	580	46.2	12.3	22.3	12.7	46.2	5.4	1.2	45.7	46.6
	2011	689	65.1	7.1	10.3	10.2	65.1	4.4	3.0	73.4	57.9
Germany	2007	749	77.9	4.9	8.7	5.0	77.9	3.2	0.2	73.1	83.0
	2011	581	78.2	4.6	7.4	5.7	78.2	3.9	0.3	75.4	81.0
Hong Kong SAR	2007	543	86.5	3.0	4.8	5.6	86.5	0.1	0.0	84.7	88.3
	2011	567	84.5	4.9	4.8	4.3	84.5	1.2	0.2	82.2	86.5
Hungary	2007	577	75.9	4.9	11.4	5.4	75.9	1.5	0.9	74.2	78.0
	2011	741	73.9	5.0	12.6	5.5	73.9	1.9	1.1	74.2	73.7
Iran, Islamic Rep. of	2007	553	30.5	10.9	44.7	9.7	30.5	3.9	0.3	26.5	34.4
	2011	815	37.4	9.3	39.6	7.3	37.4	2.8	3.6	37.2	37.7
Italy	2007	623	55.7	4.6	21.0	17.5	55.7	1.0	0.2	55.9	55.4
	2011	600	56.2	4.9	18.3	18.0	56.2	2.0	0.6	56.3	56.2
Japan	2007	643	63.6	7.1	20.7	8.1	63.6	0.4	0.1	62.8	64.4
	2011	629	67.8	6.2	16.8	8.1	67.8	0.5	0.6	67.8	67.8
Kuwait	2007	531	27.1	16.6	19.9	27.0	27.1	5.6	3.7	29.5	24.3
	2011	578	37.3	10.9	15.8	25.8	37.3	7.1	3.1	40.8	33.3
Lithuania	2007	562	60.9	4.2	20.6	10.0	60.9	4.2	0.0	59.9	61.9
	2011	663	60.8	6.2	22.2	5.9	60.8	4.7	0.2	60.1	61.5
Netherlands	2007	475	70.5	4.3	8.5	15.7	70.5	1.1	0.0	66.6	74.0
	2011	464	68.3	4.1	7.4	18.2	68.3	1.1	0.9	65.7	71.4
New Zealand	2007	706	70.0	8.8	11.1	7.7	70.0	1.5	0.9	69.6	70.5
	2011	794	69.1	10.5	13.0	6.4	69.1	1.0	0.1	68.9	69.2
Norway	2007	580	69.9	7.4	13.8	5.1	69.9	2.4	1.4	68.3	71.3
	2011	442	77.4	8.8	6.5	4.2	77.4	1.4	1.5	80.1	74.9
Russian Federation	2007	641	66.2	2.0	24.6	4.1	66.2	3.0	0.0	64.6	67.8
	2011	642	72.4	1.7	21.2	2.9	72.4	1.5	0.3	71.2	73.5
Singapore	2007	711	77.8	5.7	9.8	6.6	77.8	0.1	0.0	74.1	81.1
	2011	903	71.2	7.1	10.2	11.1	71.2	0.3	0.1	67.2	75.3
Slovak Republic	2007	717	60.4	7.6	17.5	9.6	60.4	4.2	0.7	57.8	62.9
	2011	795	69.0	7.3	14.5	7.0	69.0	1.9	0.3	67.4	70.8
Slovenia	2007	629	59.9	6.1	13.0	16.7	59.9	3.9	0.4	59.8	60.0
	2011	635	69.0	7.1	9.1	11.4	69.0	2.7	0.6	65.2	72.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S13_08 (S041105): Earth Science / Knowing

Label: Evidence for existence of animals - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	67.3	8.3	13.8	9.3	67.3	1.0	0.3	64.5	70.2
	2011	643	71.0	6.7	11.5	8.9	71.0	1.4	0.5	66.5	74.6
Tunisia	2007	593	27.5	9.1	22.8	18.4	27.5	17.9	4.3	29.5	25.4
	2011	676	29.4	9.6	16.6	27.7	29.4	8.9	7.8	30.3	28.7
United States	2007	1117	74.7	7.2	8.1	8.8	74.7	1.0	0.1	71.0	78.5
	2011	1801	77.5	6.3	6.5	6.9	77.5	1.4	1.4	75.0	80.1

International Avg. (25)	2007	15753	63.9	6.9	15.6	10.0	63.9	3.0	0.7	62.0	65.9
	2011	17516	67.2	6.5	13.1	9.4	67.2	2.5	1.2	66.5	68.0

Alberta, Canada	2007	551	81.3	7.4	5.4	4.2	81.3	1.7	0.0	79.8	82.6
	2011	519	82.2	6.5	4.2	5.1	82.2	1.3	0.7	79.4	84.8
Ontario, Canada	2007	496	78.8	8.9	5.4	5.6	78.8	1.3	0.0	76.1	81.5
	2011	637	71.9	9.1	8.5	7.8	71.9	1.6	1.1	71.8	71.9
Quebec, Canada	2007	568	71.7	5.5	9.6	11.0	71.7	1.5	0.7	69.3	74.8
	2011	615	68.3	6.3	10.8	12.7	68.3	1.7	0.1	68.9	67.7
Dubai, UAE	2007	428	56.7	11.8	14.0	12.5	56.7	3.8	1.2	56.3	57.2
	2011	868	56.5	13.4	13.3	13.9	56.5	1.9	0.9	54.7	58.2

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

S13_09 (S041193): Physical Science / Applying
Label: Vibrations start on a guitar - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	67.8	12.8	5.0	13.3	67.8	0.5	0.5	65.1	71.0
	2011	870	68.6	12.4	5.5	10.9	68.6	1.4	1.2	71.7	65.7
Austria	2007	686	61.0	25.4	4.3	8.4	61.0	0.5	0.3	61.9	60.3
	2011	661	64.1	23.7	2.6	8.2	64.1	1.3	0.2	58.8	69.6
Chinese Taipei	2007	591	77.8	5.9	4.3	11.0	77.8	1.0	0.0	75.7	79.6
	2011	615	81.1	6.1	4.0	8.6	81.1	0.0	0.2	83.1	79.4
Czech Republic	2007	595	64.3	25.8	2.6	4.9	64.3	1.7	0.7	66.0	62.5
	2011	660	58.8	32.7	1.7	5.5	58.8	1.2	0.1	54.8	62.7
Denmark	2007	496	72.6	6.1	3.8	13.6	72.6	1.4	2.6	71.9	73.7
	2011	566	68.4	9.4	7.0	11.1	68.4	2.6	1.5	66.4	70.4
England	2007	617	71.9	10.1	8.8	8.0	71.9	1.1	0.1	73.7	70.4
	2011	486	71.3	9.1	8.8	8.3	71.3	1.3	1.1	69.5	73.1
Georgia	2007	580	65.0	7.6	3.8	19.8	65.0	2.0	1.8	64.2	65.8
	2011	689	68.7	4.5	3.3	16.6	68.7	3.1	3.7	69.1	68.3
Germany	2007	749	56.7	23.0	5.7	13.9	56.7	0.5	0.2	58.2	55.1
	2011	581	60.8	23.2	4.8	8.8	60.8	2.0	0.4	61.9	59.6
Hong Kong SAR	2007	543	69.4	5.5	16.7	8.3	69.4	0.0	0.0	70.1	68.8
	2011	567	71.3	8.6	11.3	7.7	71.3	0.9	0.2	71.0	71.5
Hungary	2007	577	86.6	4.5	3.1	3.9	86.6	1.1	0.9	89.3	83.1
	2011	741	81.9	8.1	3.6	4.7	81.9	0.6	1.2	81.1	82.6
Iran, Islamic Rep. of	2007	553	69.0	8.4	3.5	16.7	69.0	1.6	0.7	69.5	68.4
	2011	815	65.0	8.4	4.3	16.3	65.0	2.0	4.1	66.1	63.9
Italy	2007	634	74.7	11.0	6.6	5.6	74.7	1.4	0.5	75.4	73.9
	2011	600	77.8	7.8	6.5	5.9	77.8	1.5	0.6	75.1	80.5
Japan	2007	643	70.8	9.7	9.7	9.5	70.8	0.2	0.1	71.0	70.7
	2011	629	67.3	8.0	13.5	10.1	67.3	0.5	0.6	67.6	67.0
Kuwait	2007	531	29.7	14.4	16.1	31.0	29.7	4.6	4.1	28.7	31.0
	2011	579	34.6	18.3	15.6	22.8	34.6	5.4	3.4	36.2	32.8
Lithuania	2007	562	73.2	13.1	8.3	4.8	73.2	0.6	0.0	75.9	70.4
	2011	663	74.1	16.1	5.6	3.1	74.1	0.9	0.2	75.7	72.7
Netherlands	2007	475	79.7	6.8	9.3	3.7	79.7	0.5	0.0	74.0	84.7
	2011	464	75.8	8.7	10.3	3.8	75.8	0.5	0.9	74.0	78.1
New Zealand	2007	706	68.1	11.4	5.5	12.7	68.1	1.5	0.9	71.1	65.1
	2011	794	65.9	12.7	6.6	13.2	65.9	1.6	0.1	67.2	64.6
Norway	2007	580	69.3	11.5	5.9	8.5	69.3	3.1	1.7	72.2	66.7
	2011	442	68.8	15.8	2.8	8.5	68.8	2.5	1.5	71.3	66.4
Russian Federation	2007	641	71.8	16.7	3.4	7.5	71.8	0.4	0.1	70.4	73.1
	2011	642	77.1	9.9	8.3	3.5	77.1	0.8	0.5	79.2	75.1
Singapore	2007	711	77.9	4.6	7.3	10.2	77.9	0.0	0.0	75.1	80.4
	2011	903	79.4	5.7	9.9	4.9	79.4	0.1	0.1	77.7	81.1
Slovak Republic	2007	717	72.8	13.5	3.0	8.8	72.8	1.1	0.7	69.9	75.8
	2011	795	78.8	10.9	3.8	4.9	78.8	1.2	0.3	78.8	78.8
Slovenia	2007	629	68.9	21.1	3.6	4.6	68.9	1.0	0.7	67.9	70.0
	2011	640	68.0	19.4	4.3	6.3	68.0	0.9	1.0	71.9	64.1

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

S13_09 (S041193): Physical Science / Applying
Label: Vibrations start on a guitar - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	76.0	14.0	6.1	3.3	76.0	0.3	0.3	77.9	74.1
	2011	643	74.7	13.8	5.2	4.7	74.7	0.8	0.7	76.7	73.0
Tunisia	2007	593	32.6	11.6	11.8	25.5	32.6	14.1	4.4	32.5	32.8
	2011	690	33.5	8.2	10.5	33.6	33.5	5.9	8.4	32.2	34.5
United States	2007	1117	73.8	7.7	4.9	12.7	73.8	0.8	0.1	73.3	74.2
	2011	1801	74.4	7.9	5.1	10.1	74.4	0.9	1.5	74.0	74.9

International Avg. (25)	2007	15764	68.1	12.1	6.5	10.8	68.1	1.7	0.9	68.0	68.1
	2011	17536	68.4	12.4	6.6	9.7	68.4	1.6	1.4	68.4	68.4

Alberta, Canada	2007	551	70.5	8.6	8.4	11.2	70.5	1.3	0.0	69.2	71.6
	2011	519	75.7	7.9	5.3	9.2	75.7	1.2	0.8	75.8	75.5
Ontario, Canada	2007	496	73.8	5.6	4.8	14.5	73.8	1.2	0.1	78.8	68.8
	2011	637	71.1	8.2	6.4	11.9	71.1	0.9	1.5	72.1	70.1
Quebec, Canada	2007	568	70.7	12.2	4.4	11.9	70.7	0.0	0.7	67.5	74.8
	2011	615	78.1	10.4	3.3	7.1	78.1	1.0	0.1	76.4	80.0
Dubai, UAE	2007	428	62.3	8.8	9.8	15.9	62.3	1.6	1.5	67.0	57.8
	2011	868	64.8	10.4	7.2	15.4	64.8	1.1	1.1	66.5	63.3

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

S13_10A (S041149A): Earth Science / Reasoning

Label: Why water does not go into glass - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	28.3	64.8	6.3	0.5	28.3	28.2	28.5
	2011	870	25.7	65.5	7.7	1.2	25.7	25.3	26.1
Austria	2007	686	37.8	44.4	17.5	0.3	37.8	31.5	42.8
	2011	661	32.9	51.0	15.9	0.2	32.9	26.0	40.0
Chinese Taipei	2007	591	60.8	27.9	11.3	0.0	60.8	56.8	64.5
	2011	615	53.8	38.8	7.3	0.2	53.8	51.6	55.7
Czech Republic	2007	595	34.7	50.1	14.5	0.7	34.7	26.3	43.5
	2011	660	31.9	53.6	14.4	0.1	31.9	27.3	36.4
Denmark	2007	496	33.8	50.4	13.3	2.6	33.8	29.9	38.9
	2011	566	27.9	57.7	12.8	1.5	27.9	27.8	28.1
England	2007	617	22.5	71.2	6.2	0.1	22.5	19.0	25.3
	2011	486	15.4	77.6	5.9	1.1	15.4	9.9	20.9
Georgia	2007	580	15.2	47.0	35.5	2.3	15.2	13.2	17.1
	2011	684	9.8	61.9	24.5	3.9	9.8	8.6	10.9
Germany	2007	749	38.9	48.0	12.9	0.2	38.9	34.0	44.0
	2011	581	33.5	52.7	13.2	0.6	33.5	28.1	39.0
Hong Kong SAR	2007	543	47.0	44.1	9.0	0.0	47.0	46.7	47.3
	2011	567	34.7	52.4	12.7	0.2	34.7	34.6	34.8
Hungary	2007	577	33.3	54.6	11.2	0.9	33.3	24.9	44.2
	2011	741	32.9	58.8	7.0	1.3	32.9	31.3	34.4
Iran, Islamic Rep. of	2007	553	6.8	72.1	20.3	0.7	6.8	4.5	9.0
	2011	815	10.3	71.1	14.4	4.2	10.3	6.1	14.6
Italy	2007	635	30.7	53.9	14.8	0.5	30.7	29.2	32.5
	2011	600	32.0	55.0	12.4	0.6	32.0	30.4	33.6
Japan	2007	643	60.8	36.8	2.3	0.1	60.8	61.5	60.2
	2011	629	65.4	32.0	2.0	0.6	65.4	63.5	67.2
Kuwait	2007	531	5.1	49.5	40.5	4.9	5.1	6.2	3.7
	2011	586	1.9	63.7	30.6	3.9	1.9	2.0	1.7
Lithuania	2007	562	16.7	72.0	11.3	0.0	16.7	16.7	16.7
	2011	663	20.5	70.9	8.4	0.2	20.5	14.5	26.0
Netherlands	2007	475	27.2	69.9	2.9	0.0	27.2	18.6	35.0
	2011	464	19.3	73.5	6.2	0.9	19.3	17.8	21.3
New Zealand	2007	706	21.4	70.3	7.2	1.0	21.4	18.5	24.4
	2011	794	19.3	74.3	6.1	0.4	19.3	15.7	22.8
Norway	2007	580	20.6	65.8	11.8	1.8	20.6	15.2	25.4
	2011	442	11.4	70.5	14.9	3.2	11.4	8.3	14.4
Russian Federation	2007	641	40.9	47.6	11.3	0.1	40.9	33.6	47.6
	2011	642	41.4	48.1	10.1	0.5	41.4	39.7	42.9
Singapore	2007	710	78.8	20.6	0.6	0.0	78.8	79.7	78.0
	2011	903	82.0	16.7	1.3	0.1	82.0	81.2	82.7
Slovak Republic	2007	717	37.1	49.1	12.9	1.0	37.1	32.9	41.3
	2011	795	29.8	57.6	12.2	0.3	29.8	25.9	34.1
Slovenia	2007	629	29.9	63.1	6.1	0.9	29.9	26.1	33.8
	2011	641	23.4	64.9	10.6	1.0	23.4	18.9	27.9

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

S13_10A (S041149A): Earth Science / Reasoning

Label: Why water does not go into glass - Points: 1

COUNTRY	YEAR	N	10 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	41.5	49.8	8.3	0.4	41.5	36.9	46.3
	2011	643	37.0	53.1	9.2	0.7	37.0	33.9	39.5
Tunisia	2007	592	16.4	59.4	20.1	4.2	16.4	17.8	15.0
	2011	703	17.8	59.5	14.4	8.3	17.8	21.7	14.8
United States	2007	1117	26.3	69.9	3.7	0.1	26.3	22.2	30.5
	2011	1801	20.7	74.4	3.2	1.6	20.7	20.3	21.2
International Avg. (25)	2007	15763	32.5	54.1	12.5	0.9	32.5	29.2	35.8
	2011	17552	29.2	58.2	11.1	1.5	29.2	26.8	31.6
Alberta, Canada	2007	551	30.0	63.3	6.7	0.0	30.0	24.1	34.9
	2011	519	17.7	75.8	5.8	0.8	17.7	11.2	23.7
Ontario, Canada	2007	496	27.1	69.4	3.5	0.1	27.1	23.9	30.2
	2011	637	16.0	78.7	3.7	1.5	16.0	15.0	17.0
Quebec, Canada	2007	568	26.2	61.9	11.2	0.7	26.2	21.1	32.7
	2011	615	20.5	72.8	6.6	0.1	20.5	15.9	25.7
Dubai, UAE	2007	428	14.8	62.9	20.8	1.5	14.8	18.4	11.5
	2011	868	13.1	68.9	16.9	1.1	13.1	10.5	15.5

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

S13_10B (S041149B): Earth Science / Reasoning

Label: Tipping caused cotton to get wet - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	13.2	10.8	69.1	6.3	0.5	24.0	19.3	29.4
	2011	870	12.0	8.7	69.7	8.5	1.2	20.7	21.0	20.4
Austria	2007	686	13.9	15.2	49.4	21.2	0.3	29.1	23.2	33.9
	2011	661	11.7	15.1	54.8	18.3	0.2	26.8	18.7	35.0
Chinese Taipei	2007	591	16.5	39.6	36.4	7.4	0.0	56.1	55.5	56.8
	2011	615	19.3	28.2	44.8	7.6	0.2	47.5	46.9	48.0
Czech Republic	2007	596	11.9	17.3	55.2	14.9	0.7	29.3	21.4	37.5
	2011	660	16.1	11.9	56.7	15.3	0.1	28.0	24.5	31.3
Denmark	2007	496	14.8	13.2	54.9	14.5	2.6	28.0	22.4	35.6
	2011	566	14.7	9.0	63.4	11.4	1.5	23.7	18.5	28.8
England	2007	617	10.4	8.2	74.9	6.3	0.1	18.7	15.6	21.2
	2011	486	11.2	5.8	73.0	8.9	1.1	17.0	13.9	20.1
Georgia	2007	580	6.2	2.6	51.1	37.8	2.3	8.8	5.6	11.8
	2011	685	4.1	2.9	63.0	26.3	3.8	6.9	6.0	7.7
Germany	2007	749	19.1	14.5	52.0	14.2	0.2	33.6	26.9	40.7
	2011	581	15.4	12.6	56.2	15.2	0.6	28.0	21.1	35.0
Hong Kong SAR	2007	543	23.4	25.1	43.4	8.2	0.0	48.5	48.3	48.7
	2011	567	15.9	17.5	53.9	12.5	0.2	33.4	32.7	34.0
Hungary	2007	577	19.6	14.5	54.4	10.7	0.9	34.0	27.0	43.0
	2011	741	17.7	14.9	57.4	8.7	1.3	32.6	30.0	34.9
Iran, Islamic Rep. of	2007	553	2.6	4.0	69.2	23.5	0.7	6.5	5.1	8.0
	2011	815	7.3	5.3	64.7	18.4	4.2	12.7	8.1	17.4
Italy	2007	635	19.2	5.9	57.6	16.8	0.5	25.1	22.3	28.1
	2011	600	14.8	12.0	55.8	16.8	0.6	26.8	24.9	28.7
Japan	2007	643	24.4	35.9	36.9	2.7	0.1	60.3	57.0	63.3
	2011	629	28.2	34.2	35.3	1.7	0.6	62.4	62.7	62.0
Kuwait	2007	531	4.1	3.3	44.9	42.9	4.9	7.4	9.4	4.9
	2011	586	1.9	4.0	56.1	34.2	3.9	5.9	7.4	4.2
Lithuania	2007	562	9.7	6.8	72.8	10.6	0.0	16.6	16.5	16.6
	2011	663	8.9	9.4	71.5	10.1	0.2	18.3	13.3	22.8
Netherlands	2007	475	10.9	14.3	72.5	2.3	0.0	25.2	17.0	32.6
	2011	464	8.8	10.4	74.9	4.9	0.9	19.3	15.9	23.4
New Zealand	2007	706	9.6	10.0	70.3	9.1	1.0	19.6	16.3	23.0
	2011	794	8.1	9.3	74.4	7.7	0.4	17.5	12.1	22.9
Norway	2007	580	9.5	9.8	64.7	14.3	1.8	19.3	12.8	25.0
	2011	442	5.3	6.1	70.5	15.0	3.2	11.4	8.4	14.3
Russian Federation	2007	641	16.3	19.1	50.6	13.9	0.1	35.4	25.7	44.4
	2011	642	19.6	18.1	49.8	12.0	0.5	37.7	36.2	39.2
Singapore	2007	710	47.9	29.6	21.9	0.6	0.0	77.5	76.8	78.1
	2011	903	52.0	24.0	22.4	1.6	0.1	76.0	73.6	78.3
Slovak Republic	2007	717	17.7	16.3	52.0	13.0	1.0	34.0	26.5	41.6
	2011	795	9.8	16.1	61.3	12.6	0.3	25.9	22.8	29.3
Slovenia	2007	629	14.9	10.4	65.0	8.8	0.9	25.3	24.6	26.1
	2011	641	9.8	13.8	63.7	11.6	1.0	23.6	17.2	30.0

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

S13_10B (S041149B): Earth Science / Reasoning

Label: Tipping caused cotton to get wet - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	18.8	13.7	58.4	8.6	0.4	32.5	30.0	35.1
	2011	643	18.5	16.4	53.7	10.7	0.7	34.9	31.3	37.7
Tunisia	2007	592	8.2	3.0	59.3	25.3	4.2	11.2	12.3	10.0
	2011	703	5.2	8.1	59.8	18.6	8.3	13.3	18.7	9.2
United States	2007	1117	12.3	10.5	73.8	3.2	0.1	22.9	19.3	26.6
	2011	1801	11.5	8.7	74.6	3.5	1.6	20.3	18.2	22.5
International Avg. (25)	2007	15764	15.0	14.1	56.4	13.5	0.9	29.2	25.5	32.9
	2011	17553	13.9	12.9	59.3	12.5	1.5	26.8	24.2	29.5
Alberta, Canada	2007	551	15.8	12.9	64.6	6.7	0.0	28.8	23.0	33.5
	2011	519	11.1	10.2	71.2	6.7	0.8	21.3	14.2	28.0
Ontario, Canada	2007	496	13.9	11.5	69.3	5.2	0.1	25.4	22.4	28.4
	2011	637	9.6	9.3	74.0	5.6	1.5	18.9	15.0	22.9
Quebec, Canada	2007	568	9.1	9.4	68.4	12.4	0.7	18.5	15.4	22.5
	2011	615	7.6	10.6	72.9	8.8	0.1	18.2	14.4	22.4
Dubai, UAE	2007	428	6.6	5.0	63.3	23.5	1.5	11.7	14.7	8.8
	2011	868	6.4	4.6	69.3	18.7	1.1	11.0	7.0	14.7

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

S13_10Z (S041149Z): Earth Science / Reasoning

Label: Water glass cotton get wet-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	19.0	14.4	61.7	0.0	4.3	0.5	33.4	19.0	17.4	20.7
	2011	870	16.2	14.1	0.0	61.8	6.8	1.2	30.2	16.2	16.1	16.2
Austria	2007	686	25.8	15.3	43.4	0.0	15.2	0.3	41.0	25.8	19.5	30.9
	2011	661	23.2	13.3	0.0	50.9	12.4	0.2	36.5	23.2	16.7	29.8
Chinese Taipei	2007	591	51.1	14.8	29.1	0.0	5.0	0.0	65.9	51.1	49.0	53.0
	2011	615	42.3	16.7	0.0	35.1	5.8	0.2	59.0	42.3	40.2	44.0
Czech Republic	2007	595	24.6	14.9	49.6	0.0	10.2	0.7	39.4	24.6	17.7	31.8
	2011	660	23.8	12.4	0.0	52.7	11.1	0.1	36.1	23.8	20.1	27.3
Denmark	2007	496	22.9	16.0	48.3	0.0	10.3	2.6	38.9	22.9	18.2	29.2
	2011	566	19.0	13.7	0.0	56.1	9.7	1.5	32.7	19.0	15.8	22.1
England	2007	617	15.7	9.7	70.3	0.0	4.1	0.1	25.4	15.7	12.4	18.4
	2011	486	11.2	10.0	0.0	73.9	3.8	1.1	21.2	11.2	7.3	15.1
Georgia	2007	580	8.0	8.0	50.1	0.0	31.5	2.3	16.0	8.0	5.3	10.6
	2011	680	6.8	3.3	0.0	65.1	20.9	3.9	10.1	6.8	6.0	7.5
Germany	2007	749	28.9	14.6	47.0	0.0	9.3	0.2	43.6	28.9	22.4	35.7
	2011	581	25.0	11.5	0.0	51.9	11.0	0.6	36.5	25.0	18.7	31.4
Hong Kong SAR	2007	543	39.8	15.7	38.8	0.0	5.6	0.0	55.6	39.8	39.1	40.6
	2011	567	27.6	13.0	0.0	48.7	10.5	0.2	40.6	27.6	29.5	25.9
Hungary	2007	577	27.5	12.4	51.0	0.0	8.2	0.9	39.8	27.5	19.3	38.0
	2011	741	26.3	12.9	0.0	53.4	6.2	1.3	39.2	26.3	24.7	27.8
Iran, Islamic Rep. of	2007	553	4.2	5.0	74.1	0.0	16.0	0.7	9.2	4.2	2.5	5.8
	2011	815	9.5	3.9	0.0	69.1	13.3	4.2	13.4	9.5	6.1	13.1
Italy	2007	635	23.1	9.6	54.4	0.0	12.3	0.5	32.7	23.1	20.3	26.1
	2011	600	23.8	11.2	0.0	52.9	11.5	0.6	35.0	23.8	22.6	24.9
Japan	2007	643	53.0	15.2	29.5	0.0	2.3	0.1	68.1	53.0	52.7	53.3
	2011	629	56.8	14.1	0.0	27.2	1.3	0.6	70.9	56.8	56.1	57.6
Kuwait	2007	531	3.2	6.0	50.0	0.0	35.9	4.9	9.2	3.2	3.5	3.0
	2011	586	1.4	4.9	0.0	62.6	27.2	3.9	6.3	1.4	1.6	1.2
Lithuania	2007	562	13.2	6.9	71.3	0.0	8.6	0.0	20.1	13.2	12.9	13.5
	2011	663	15.9	7.0	0.0	70.0	6.9	0.2	22.9	15.9	11.7	19.7
Netherlands	2007	475	19.4	13.7	65.5	0.0	1.4	0.0	33.0	19.4	12.8	25.3
	2011	464	14.4	9.7	0.0	70.6	4.3	0.9	24.1	14.4	13.2	16.0
New Zealand	2007	706	16.2	8.7	67.9	0.0	6.3	1.0	24.9	16.2	14.4	17.9
	2011	794	13.7	9.2	0.0	71.6	5.0	0.4	23.0	13.7	9.8	17.7
Norway	2007	580	14.3	11.4	63.0	0.0	9.6	1.8	25.6	14.3	10.1	18.0
	2011	442	7.1	8.7	0.0	69.4	11.7	3.2	15.8	7.1	5.5	8.6
Russian Federation	2007	641	32.8	10.7	46.2	0.0	10.2	0.1	43.5	32.8	24.3	40.7
	2011	642	34.3	10.5	0.0	46.1	8.7	0.5	44.8	34.3	32.9	35.6
Singapore	2007	710	71.9	12.5	15.2	0.0	0.4	0.0	84.4	71.9	72.2	71.5
	2011	903	72.0	14.0	0.0	13.0	1.0	0.1	86.0	72.0	70.1	73.9
Slovak Republic	2007	717	29.3	12.5	46.9	0.0	10.4	1.0	41.8	29.3	23.6	35.0
	2011	795	20.8	14.0	0.0	55.7	9.2	0.3	34.9	20.8	17.8	24.1
Slovenia	2007	629	20.9	13.4	59.4	0.0	5.4	0.9	34.3	20.9	19.1	22.7
	2011	641	17.6	11.8	0.0	61.2	8.3	1.0	29.4	17.6	12.6	22.6

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

S13_10Z (S041149Z): Earth Science / Reasoning

Label: Water glass cotton get wet-DERIVED - Points: 2

COUNTRY	YEAR	N	20 %	10 %	70 %	79 %	OMITTED %	NOT REACHED %	V1 %	V2 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	29.1	15.8	49.4	0.0	5.2	0.4	44.9	29.1	26.7	31.5
	2011	643	28.9	14.0	0.0	49.1	7.2	0.7	43.0	28.9	25.7	31.5
Tunisia	2007	592	7.6	12.3	58.4	0.0	17.5	4.2	19.9	7.6	8.2	7.1
	2011	703	8.9	13.4	0.0	58.6	10.9	8.3	22.3	8.9	12.9	5.8
United States	2007	1117	19.2	10.8	67.5	0.0	2.4	0.1	30.0	19.2	16.0	22.4
	2011	1801	16.0	8.9	0.0	71.4	2.1	1.6	25.0	16.0	14.4	17.8
International Avg. (25)	2007	15763	24.8	12.0	52.3	0.0	9.9	0.9	36.8	24.8	21.6	28.1
	2011	17548	22.5	11.1	0.0	55.9	9.1	1.5	33.6	22.5	20.3	24.7
Alberta, Canada	2007	551	23.5	11.8	59.4	0.0	5.4	0.0	35.3	23.5	16.7	29.0
	2011	519	13.8	11.4	0.0	69.1	4.9	0.8	25.2	13.8	8.5	18.7
Ontario, Canada	2007	496	20.6	11.2	65.5	0.0	2.6	0.1	31.8	20.6	17.2	24.0
	2011	637	12.8	9.3	0.0	73.4	2.9	1.5	22.1	12.8	11.0	14.7
Quebec, Canada	2007	568	15.9	13.0	60.5	0.0	9.9	0.7	28.8	15.9	12.3	20.4
	2011	615	14.2	10.1	0.0	69.9	5.6	0.1	24.4	14.2	10.4	18.6
Dubai, UAE	2007	428	9.2	8.0	63.7	0.0	17.5	1.5	17.2	9.2	11.8	6.8
	2011	868	8.7	6.8	0.0	69.4	14.1	1.1	15.5	8.7	5.8	11.4

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

S13_11 (S041032): Life Science / Knowing
Label: Staying in sun with no protection - Points: 1

COUNTRY	YEAR	N	10 %	11 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	39.2	55.3	2.3	1.7	0.8	0.7	96.8	97.0	96.6
	2011	870	43.6	47.4	2.2	1.7	3.3	1.8	93.1	95.3	91.1
Austria	2007	686	5.0	85.0	2.7	3.8	2.5	1.1	92.6	94.3	91.3
	2011	661	4.1	84.7	5.1	2.4	2.9	0.7	93.9	94.9	93.0
Chinese Taipei	2007	591	5.1	77.2	4.8	8.3	4.0	0.7	87.1	87.9	86.3
	2011	615	4.0	76.7	8.9	6.2	4.0	0.2	89.5	90.8	88.4
Czech Republic	2007	596	2.5	81.1	4.2	6.4	4.8	1.0	87.8	89.6	86.0
	2011	660	6.8	81.2	1.9	5.7	2.8	1.5	90.0	91.7	88.3
Denmark	2007	496	6.9	79.0	4.2	3.1	2.3	4.5	90.2	91.5	88.3
	2011	566	4.5	85.2	2.3	4.2	1.8	2.1	91.9	94.3	89.6
England	2007	617	13.8	76.4	4.5	3.6	1.4	0.3	94.6	95.4	94.1
	2011	486	10.6	76.7	4.7	3.5	1.8	2.8	92.0	92.1	92.0
Georgia	2007	580	5.9	67.4	2.7	4.4	13.7	5.9	76.0	74.4	77.5
	2011	689	0.6	75.0	5.5	6.1	7.0	5.9	81.1	86.6	76.3
Germany	2007	749	2.9	87.1	3.7	1.8	3.3	1.2	93.7	94.4	92.9
	2011	581	3.7	84.8	3.5	4.5	2.2	1.3	92.0	93.0	91.0
Hong Kong SAR	2007	543	14.8	57.8	11.8	9.1	6.3	0.2	84.4	86.7	82.2
	2011	567	12.0	50.8	4.0	27.7	5.1	0.4	66.8	67.4	66.3
Hungary	2007	577	8.5	83.0	2.9	2.6	1.7	1.4	94.4	95.3	93.1
	2011	741	7.4	80.5	2.6	4.2	2.6	2.7	90.6	91.8	89.4
Iran, Islamic Rep. of	2007	552	0.1	56.7	12.5	14.9	11.5	4.2	69.3	74.0	64.7
	2011	815	1.4	62.5	7.1	12.6	9.6	6.9	70.9	71.7	70.1
Italy	2007	635	1.4	81.1	6.8	4.7	4.8	1.3	89.2	91.3	86.8
	2011	600	1.3	80.1	7.6	4.5	5.1	1.4	89.1	90.4	87.8
Japan	2007	643	1.2	64.0	9.8	22.3	2.4	0.2	75.0	79.6	71.0
	2011	629	3.5	68.5	9.6	14.6	2.7	1.1	81.6	83.0	80.2
Kuwait	2007	531	0.2	22.3	8.2	21.4	38.9	9.0	30.7	38.8	20.9
	2011	586	0.9	16.9	2.3	32.4	40.2	7.3	20.1	24.0	15.5
Lithuania	2007	562	2.2	63.2	24.1	7.6	2.7	0.2	89.5	92.5	86.4
	2011	663	3.0	61.2	16.6	16.2	2.7	0.3	80.8	83.1	78.8
Netherlands	2007	475	3.2	90.6	2.7	2.4	1.0	0.0	96.5	98.1	95.2
	2011	464	5.9	83.6	2.4	5.7	1.0	1.4	91.9	94.2	89.7
New Zealand	2007	706	24.6	64.2	2.9	3.0	3.6	1.7	91.7	94.6	88.8
	2011	794	18.6	70.5	2.0	3.6	3.7	1.5	91.2	94.0	88.3
Norway	2007	580	1.6	84.5	1.8	7.2	2.5	2.3	87.9	89.0	86.9
	2011	442	1.9	83.2	2.1	5.4	2.9	4.6	87.1	91.9	82.6
Russian Federation	2007	641	0.3	76.9	11.2	5.6	5.0	1.1	88.4	90.3	86.5
	2011	642	0.4	82.2	7.5	5.1	3.4	1.4	90.1	91.4	88.8
Singapore	2007	711	9.4	81.3	4.6	3.6	1.1	0.0	95.3	96.7	94.0
	2011	903	6.0	82.8	5.1	5.3	0.7	0.1	93.9	95.6	92.1
Slovak Republic	2007	717	6.4	74.0	6.9	4.8	5.5	2.4	87.3	87.2	87.4
	2011	795	2.4	77.1	4.4	11.2	3.4	1.5	83.9	85.9	81.8
Slovenia	2007	629	5.8	79.9	4.9	6.1	1.7	1.6	90.6	92.1	89.1
	2011	641	3.6	81.0	5.0	4.7	4.4	1.3	89.5	93.1	85.9

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

S13_11 (S041032): Life Science / Knowing

Label: Staying in sun with no protection - Points: 1

COUNTRY	YEAR	N	10 %	11 %	19 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	4.4	76.5	10.2	5.2	2.6	1.0	91.2	93.8	88.6
	2011	643	2.7	78.7	5.7	7.7	3.1	2.0	87.1	89.2	85.5
Tunisia	2007	592	3.2	33.4	2.7	33.1	18.9	8.7	39.4	45.6	33.2
	2011	703	3.1	39.9	6.4	24.3	14.8	11.5	49.4	58.2	42.7
United States	2007	1117	11.9	74.2	7.2	4.4	1.8	0.4	93.3	93.6	93.1
	2011	1801	8.3	79.9	3.8	3.3	2.2	2.5	92.0	93.2	90.7
International Avg. (25)	2007	15764	7.2	70.9	6.4	7.6	5.8	2.0	84.5	86.5	82.4
	2011	17557	6.4	71.6	5.1	8.9	5.3	2.6	83.2	85.5	81.0
Alberta, Canada	2007	551	7.5	80.9	4.6	3.8	2.7	0.6	93.0	90.9	94.6
	2011	519	5.7	81.1	6.7	2.7	2.0	1.9	93.4	94.8	92.1
Ontario, Canada	2007	496	8.1	82.9	2.2	4.9	1.7	0.2	93.2	95.3	91.1
	2011	637	7.0	77.6	5.8	4.8	2.4	2.5	90.3	90.8	89.9
Quebec, Canada	2007	568	11.1	79.7	3.0	1.4	3.4	1.4	93.8	95.9	91.1
	2011	615	9.2	80.0	3.0	3.1	2.7	2.1	92.1	94.9	89.0
Dubai, UAE	2007	428	4.3	52.5	9.4	17.2	12.7	3.9	66.2	70.7	62.0
	2011	868	5.4	58.4	8.1	14.6	11.2	2.2	72.0	76.4	67.9

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

S13_12 (S041068): Physical Science / Reasoning
Label: Source of energy for electricity - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	34.3	3.7	51.9	9.1	1.0	38.0	30.8	45.9
	2011	870	33.3	5.1	46.8	11.9	2.8	38.4	39.0	37.9
Austria	2007	686	49.7	10.8	19.9	18.2	1.5	60.5	50.5	68.6
	2011	661	51.1	10.5	20.3	16.4	1.6	61.7	51.8	71.6
Chinese Taipei	2007	591	60.8	3.4	23.1	11.3	1.4	64.2	62.0	66.2
	2011	615	57.8	11.8	22.2	7.9	0.4	69.6	67.2	71.6
Czech Republic	2007	596	28.7	9.2	33.9	26.6	1.6	37.9	24.9	51.5
	2011	660	32.9	9.1	41.1	15.3	1.7	42.0	33.1	50.6
Denmark	2007	496	22.6	10.0	35.7	26.2	5.4	32.6	31.4	34.1
	2011	566	24.3	13.2	44.3	15.7	2.4	37.5	31.9	43.1
England	2007	617	30.7	4.8	46.3	17.2	0.9	35.5	35.5	35.6
	2011	486	24.4	6.7	51.6	13.5	3.9	31.0	30.0	32.0
Georgia	2007	580	21.9	1.2	19.1	50.1	7.6	23.1	22.4	23.8
	2011	689	21.6	1.6	31.8	38.0	6.9	23.2	23.2	23.2
Germany	2007	749	40.9	12.7	28.3	16.0	2.2	53.6	49.9	57.5
	2011	581	44.8	14.6	24.2	14.4	2.0	59.3	52.2	66.7
Hong Kong SAR	2007	543	54.8	2.4	36.2	5.3	1.3	57.2	47.4	67.3
	2011	567	59.8	3.1	29.5	7.1	0.5	62.9	60.3	65.2
Hungary	2007	577	23.8	5.3	40.0	29.0	1.9	29.1	19.3	41.6
	2011	741	33.6	8.1	33.2	22.2	2.9	41.8	36.5	46.5
Iran, Islamic Rep. of	2007	552	38.3	6.3	25.6	24.1	5.8	44.6	46.7	42.5
	2011	815	36.9	7.8	28.7	17.4	9.2	44.8	42.2	47.4
Italy	2007	634	59.2	2.5	19.6	16.5	2.2	61.7	58.9	64.8
	2011	600	47.0	8.6	24.6	18.5	1.4	55.5	52.9	58.1
Japan	2007	643	32.3	9.1	46.1	12.2	0.3	41.4	38.9	43.6
	2011	629	29.6	6.0	53.6	9.8	1.1	35.5	33.2	37.8
Kuwait	2007	531	6.0	3.6	36.6	42.4	11.4	9.6	10.1	8.9
	2011	584	6.4	2.4	43.0	38.0	10.3	8.8	9.9	7.5
Lithuania	2007	562	38.7	10.9	28.8	21.2	0.5	49.6	45.7	53.5
	2011	663	43.2	5.2	33.4	17.3	0.8	48.4	43.5	53.0
Netherlands	2007	475	34.0	15.1	44.2	5.8	1.0	49.1	43.5	54.1
	2011	464	36.3	16.1	40.4	5.6	1.6	52.5	46.2	59.8
New Zealand	2007	706	42.9	4.7	40.2	10.2	2.0	47.6	41.6	53.7
	2011	794	38.2	7.9	43.6	7.7	2.6	46.1	42.3	49.9
Norway	2007	580	37.8	7.2	32.0	19.9	3.1	45.0	37.4	51.7
	2011	442	35.2	4.4	38.7	16.7	5.0	39.6	39.5	39.6
Russian Federation	2007	641	42.3	2.5	30.4	23.4	1.3	44.8	45.6	44.1
	2011	642	41.6	2.6	36.1	18.0	1.7	44.2	38.2	49.8
Singapore	2007	711	50.5	8.1	39.8	1.2	0.4	58.6	57.6	59.5
	2011	903	54.9	8.0	35.0	1.8	0.2	63.0	65.9	60.1
Slovak Republic	2007	717	51.0	6.3	20.5	18.8	3.4	57.3	52.5	62.2
	2011	795	48.1	7.2	24.2	18.9	1.7	55.3	51.0	59.9
Slovenia	2007	629	42.1	11.8	26.5	17.5	2.2	53.8	47.9	59.8
	2011	641	33.8	11.9	25.9	26.4	2.0	45.7	40.8	50.7

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

S13_12 (S041068): Physical Science / Reasoning
Label: Source of energy for electricity - Points: 1

COUNTRY	YEAR	N	10 %	11 %	79 %	OMITTED %	NOT REACHED %	V1 %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	38.9	9.2	26.0	24.7	1.2	48.1	40.1	56.3
	2011	643	39.1	10.8	25.6	21.3	3.3	49.9	46.0	52.9
Tunisia	2007	593	18.7	0.7	40.1	28.5	12.0	19.4	21.0	17.7
	2011	703	19.7	4.1	40.6	22.2	13.4	23.8	31.3	18.1
United States	2007	1117	28.4	7.4	58.1	5.1	0.9	35.9	32.9	38.9
	2011	1801	35.9	8.9	48.8	2.8	3.7	44.8	46.4	43.0
International Avg. (25)	2007	15764	37.2	6.7	34.0	19.2	2.9	43.9	39.8	48.1
	2011	17555	37.2	7.8	35.5	16.2	3.3	45.0	42.2	47.8
Alberta, Canada	2007	551	44.4	5.3	41.0	7.8	1.6	49.7	52.2	47.5
	2011	519	45.5	7.8	40.0	3.8	2.8	53.3	50.4	56.2
Ontario, Canada	2007	496	43.7	3.5	42.4	10.0	0.5	47.2	40.1	54.2
	2011	637	41.5	5.8	42.6	6.1	4.0	47.2	43.4	51.2
Quebec, Canada	2007	567	36.2	7.4	35.9	18.7	1.8	43.6	39.2	49.3
	2011	615	38.0	7.7	40.8	10.7	2.7	45.7	43.9	47.8
Dubai, UAE	2007	428	31.0	3.1	37.5	23.6	4.8	34.1	34.8	33.4
	2011	868	31.2	2.7	41.6	21.2	3.4	33.9	33.0	34.7

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

S13_13 (S041303): Physical Science / Knowing

Label: New substances with new properties - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Australia	2007	575	37.8	37.8	12.0	19.4	26.8	2.4	1.6	41.9	33.2
	2011	870	42.8	42.8	14.1	15.9	21.4	2.6	3.4	42.6	42.9
Austria	2007	686	47.9	47.9	19.4	12.6	12.4	4.8	2.9	45.6	49.7
	2011	661	46.8	46.8	18.8	13.8	11.6	5.8	3.2	45.9	47.7
Chinese Taipei	2007	591	66.3	66.3	13.4	8.8	9.4	0.4	1.7	60.3	71.8
	2011	615	66.1	66.1	12.0	11.4	9.2	0.7	0.6	67.2	65.0
Czech Republic	2007	596	61.3	61.3	10.5	10.6	7.2	7.9	2.5	61.3	61.3
	2011	660	59.0	59.0	10.6	11.8	11.8	4.9	2.0	58.8	59.2
Denmark	2007	496	56.7	56.7	8.4	10.6	10.8	5.1	8.4	52.5	62.4
	2011	566	55.7	55.7	10.4	11.6	14.4	3.5	4.6	53.7	57.6
England	2007	617	44.9	44.9	14.8	15.6	19.2	3.8	1.7	49.0	41.6
	2011	486	41.3	41.3	15.0	15.9	19.6	2.4	5.8	41.6	41.0
Georgia	2007	580	37.5	37.5	14.5	14.4	18.1	5.4	10.1	37.7	37.3
	2011	689	42.0	42.0	16.5	13.8	16.2	2.7	8.9	41.2	42.7
Germany	2007	749	59.2	59.2	7.5	13.4	11.9	4.4	3.5	57.5	60.9
	2011	581	56.1	56.1	8.7	13.2	15.0	4.1	3.0	57.4	54.7
Hong Kong SAR	2007	543	66.2	66.2	10.0	7.2	14.7	0.6	1.3	62.3	70.1
	2011	567	66.4	66.4	10.0	9.5	12.7	0.7	0.7	66.7	66.2
Hungary	2007	577	55.8	55.8	9.0	10.7	20.6	1.7	2.2	56.4	55.1
	2011	741	62.1	62.1	7.7	8.7	15.4	1.3	4.7	59.9	64.0
Iran, Islamic Rep. of	2007	552	36.0	36.0	11.7	17.9	24.9	3.0	6.6	35.3	36.6
	2011	815	35.9	35.9	11.4	16.2	24.5	2.2	9.7	32.4	39.6
Italy	2007	633	67.9	67.9	8.8	6.3	10.6	2.9	3.5	68.8	66.8
	2011	600	68.0	68.0	7.0	9.7	11.2	2.3	1.8	68.5	67.6
Japan	2007	643	39.7	39.7	14.4	12.8	30.8	1.3	1.0	36.9	42.2
	2011	629	42.2	42.2	12.3	14.9	28.2	1.0	1.4	40.3	44.0
Kuwait	2007	531	25.9	25.9	16.0	22.4	17.8	5.9	11.9	27.1	24.6
	2011	572	30.8	30.8	19.3	18.4	16.7	5.1	9.7	28.4	33.5
Lithuania	2007	562	49.7	49.7	10.6	12.4	22.1	3.1	2.2	45.4	54.0
	2011	663	50.8	50.8	13.8	11.0	17.9	3.9	2.6	49.4	52.0
Netherlands	2007	475	26.8	26.8	22.5	15.7	32.2	1.7	1.0	31.1	23.0
	2011	464	29.4	29.4	19.5	15.6	31.2	2.5	1.8	29.3	29.8
New Zealand	2007	706	37.2	37.2	11.9	19.8	26.4	1.9	2.8	38.2	36.1
	2011	794	42.4	42.4	10.3	21.3	21.9	1.0	3.1	44.1	40.7
Norway	2007	580	47.4	47.4	12.1	16.4	18.0	1.6	4.4	50.2	44.9
	2011	442	54.0	54.0	8.5	14.0	14.9	3.2	5.4	55.0	53.1
Russian Federation	2007	641	62.0	62.0	6.8	10.9	14.9	3.5	2.0	58.4	65.2
	2011	642	67.1	67.1	6.8	8.9	12.9	2.0	2.3	68.9	65.5
Singapore	2007	711	53.4	53.4	11.8	12.8	21.5	0.1	0.4	49.7	56.9
	2011	903	53.6	53.6	11.6	12.8	21.3	0.4	0.3	52.2	54.9
Slovak Republic	2007	717	58.0	58.0	10.8	8.8	15.2	3.4	3.9	55.4	60.6
	2011	795	61.2	61.2	9.0	10.8	14.0	2.4	2.7	59.0	63.6
Slovenia	2007	629	55.3	55.3	14.5	12.6	11.9	2.7	3.0	52.9	57.7
	2011	640	57.1	57.1	13.7	11.1	11.7	2.7	3.6	58.0	56.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent.

S13_13 (S041303): Physical Science / Knowing

Label: New substances with new properties - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	1.GIRL % RIGHT	2.BOY % RIGHT
Sweden	2007	663	48.6	48.6	13.6	13.5	19.1	3.3	2.0	43.4	53.9
	2011	643	52.2	52.2	8.7	13.2	17.1	4.5	4.3	56.0	49.2
Tunisia	2007	592	32.0	32.0	9.9	15.8	13.3	13.7	15.2	33.5	30.6
	2011	686	30.9	30.9	12.8	18.7	16.1	6.8	14.6	35.3	27.5
United States	2007	1117	40.8	40.8	13.1	20.3	22.5	2.0	1.4	42.5	39.0
	2011	1801	40.5	40.5	13.5	18.3	21.8	1.8	4.1	40.0	40.9

International Avg. (25)	2007	15762	48.6	48.6	12.3	13.7	18.1	3.5	3.9	47.7	49.4
	2011	17525	50.2	50.2	12.1	13.6	17.1	2.8	4.2	50.1	50.4

Alberta, Canada	2007	551	40.1	40.1	12.7	17.4	27.0	0.9	1.8	39.1	41.0
	2011	519	37.3	37.3	10.0	16.6	30.2	2.2	3.7	37.9	36.6
Ontario, Canada	2007	496	40.4	40.4	12.8	17.2	26.7	1.9	0.9	39.1	41.8
	2011	637	38.6	38.6	11.6	17.4	25.0	2.7	4.8	35.6	41.6
Quebec, Canada	2007	568	56.0	56.0	8.9	14.2	15.7	3.1	2.2	55.6	56.4
	2011	615	52.0	52.0	7.5	14.3	20.6	1.9	3.7	51.8	52.1
Dubai, UAE	2007	428	39.2	39.2	10.5	18.0	21.3	5.8	5.2	39.1	39.2
	2011	868	39.2	39.2	14.2	15.7	25.0	1.6	4.4	38.7	39.5

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