

Exhibit 1

Mathematics Achievement – Eighth Grade*

Country	Average Achievement
Singapore	604
Korea, Rep. of	587
Chinese Taipei	585
Hong Kong, SAR	582
Japan	579
Belgium (Flemish)	558
Netherlands	540
Slovak Republic	534
Hungary	532
Canada	531
Slovenia	530
Russian Federation	526
Australia	525
Finland	520
Czech Republic	520
Malaysia	519
Bulgaria	511
Latvia (LSS)	505
United States	502
England	496
New Zealand	491
Lithuania	482
Italy	479
Cyprus	476
Romania	472
Moldova	469
Thailand	467
Israel	466
Tunisia	448
Macedonia, Rep. of	447
Turkey	429
Jordan	428
Iran, Islamic Rep.	422
Indonesia	403
Chile	392
Philippines	345
Morocco	337
South Africa	275
International Avg.	487

Country	Percentage Reaching Upper Quarter International Benchmark
Singapore	75
Korea, Rep. of	68
Hong Kong, SAR	68
Chinese Taipei	66
Japan	64
Belgium (Flemish)	54
Netherlands	45
Slovak Republic	40
Hungary	41
Slovenia	39
Canada	38
Russian Federation	37
Australia	37
Malaysia	34
Czech Republic	33
Finland	31
Bulgaria	30
United States	28
New Zealand	25
Latvia (LSS)	26
England	24
Italy	20
Romania	19
Israel	18
Cyprus	17
Lithuania	17
Moldova	16
Thailand	16
Macedonia, Rep. of	12
Jordan	11
Indonesia	7
Turkey	7
Iran, Islamic Rep.	5
Tunisia	4
Chile	3
Philippines	1
South Africa	1
Morocco	0
Percent All Students	25

* The international report contains standard errors for all survey estimates. Latvia is annotated LSS for Latvian-Speaking Schools only.
SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998–1999.

Exhibit 2

Science Achievement – Eighth Grade*

Country	Average Achievement
Chinese Taipei	569
Singapore	568
Hungary	552
Japan	550
Korea, Rep. of	549
Netherlands	545
Australia	540
Czech Republic	539
England	538
Finland	535
Slovak Republic	535
Belgium (Flemish)	535
Slovenia	533
Canada	533
Hong Kong, SAR	530
Russian Federation	529
Bulgaria	518
United States	515
New Zealand	510
Latvia (LSS)	503
Italy	493
Malaysia	492
Lithuania	488
Thailand	482
Romania	472
Israel	468
Cyprus	460
Moldova	459
Macedonia, Rep. of	458
Jordan	450
Iran, Islamic Rep.	448
Indonesia	435
Turkey	433
Tunisia	430
Chile	420
Philippines	345
Morocco	323
South Africa	243
International Avg.	488

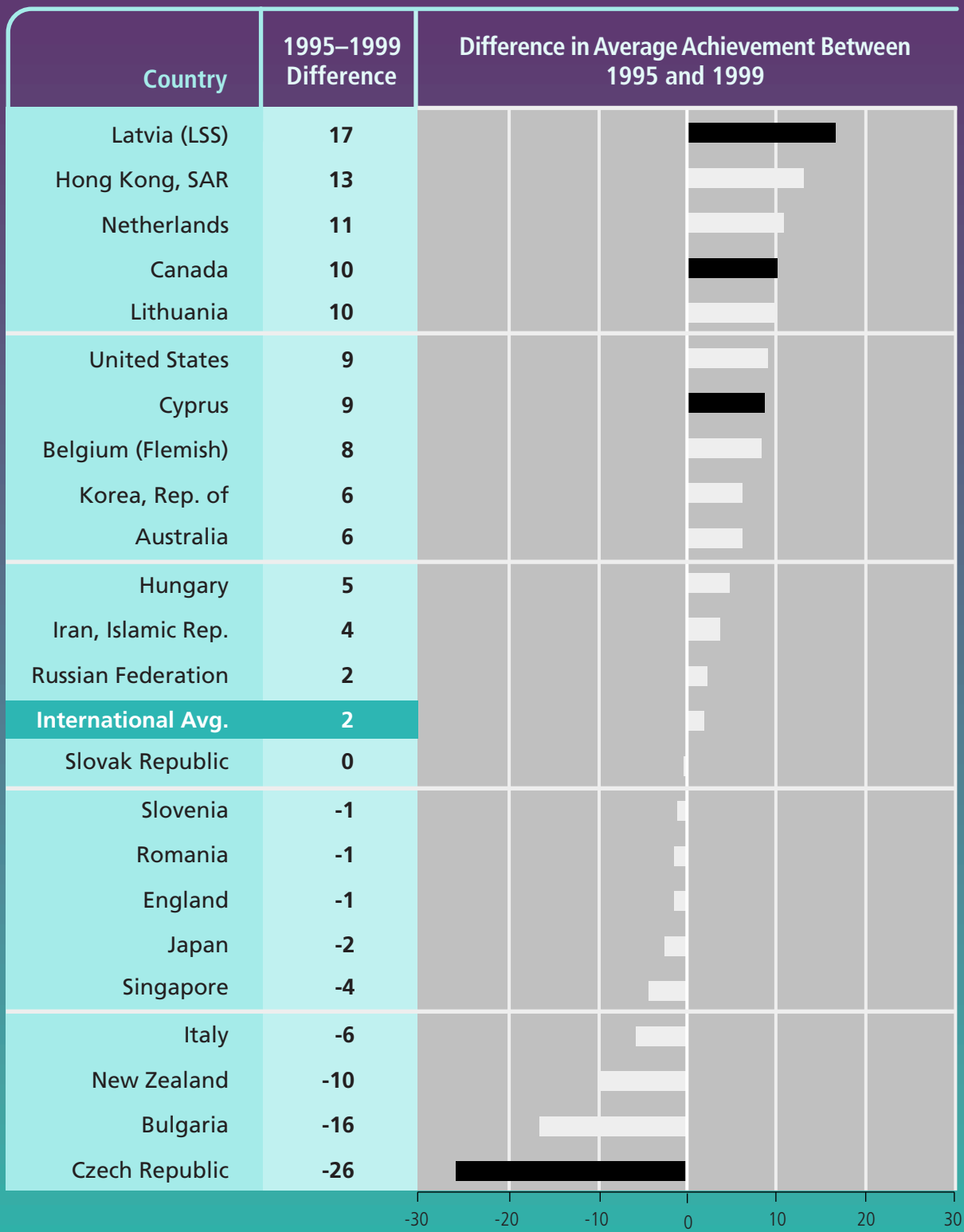
Country	Percentage Reaching Upper Quarter International Benchmark
Chinese Taipei	58
Singapore	56
Hungary	49
Japan	48
Korea, Rep. of	46
Netherlands	46
Australia	43
England	42
Czech Republic	41
Belgium (Flemish)	39
Finland	39
Slovak Republic	39
Slovenia	39
Canada	38
Russian Federation	38
Hong Kong, SAR	35
Bulgaria	34
United States	34
New Zealand	32
Latvia (LSS)	24
Italy	23
Malaysia	21
Israel	20
Lithuania	20
Romania	19
Macedonia, Rep. of	15
Moldova	15
Jordan	15
Thailand	15
Cyprus	12
Iran, Islamic Rep.	9
Indonesia	6
Turkey	6
Chile	5
Philippines	3
Tunisia	3
South Africa	2
Morocco	1
Percent All Students	25

* The international report contains standard errors for all survey estimates. Latvia is annotated LSS for Latvian-Speaking Schools only.
SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998–1999.



Exhibit 3

Trends in Mathematics Achievement Eighth Grade*



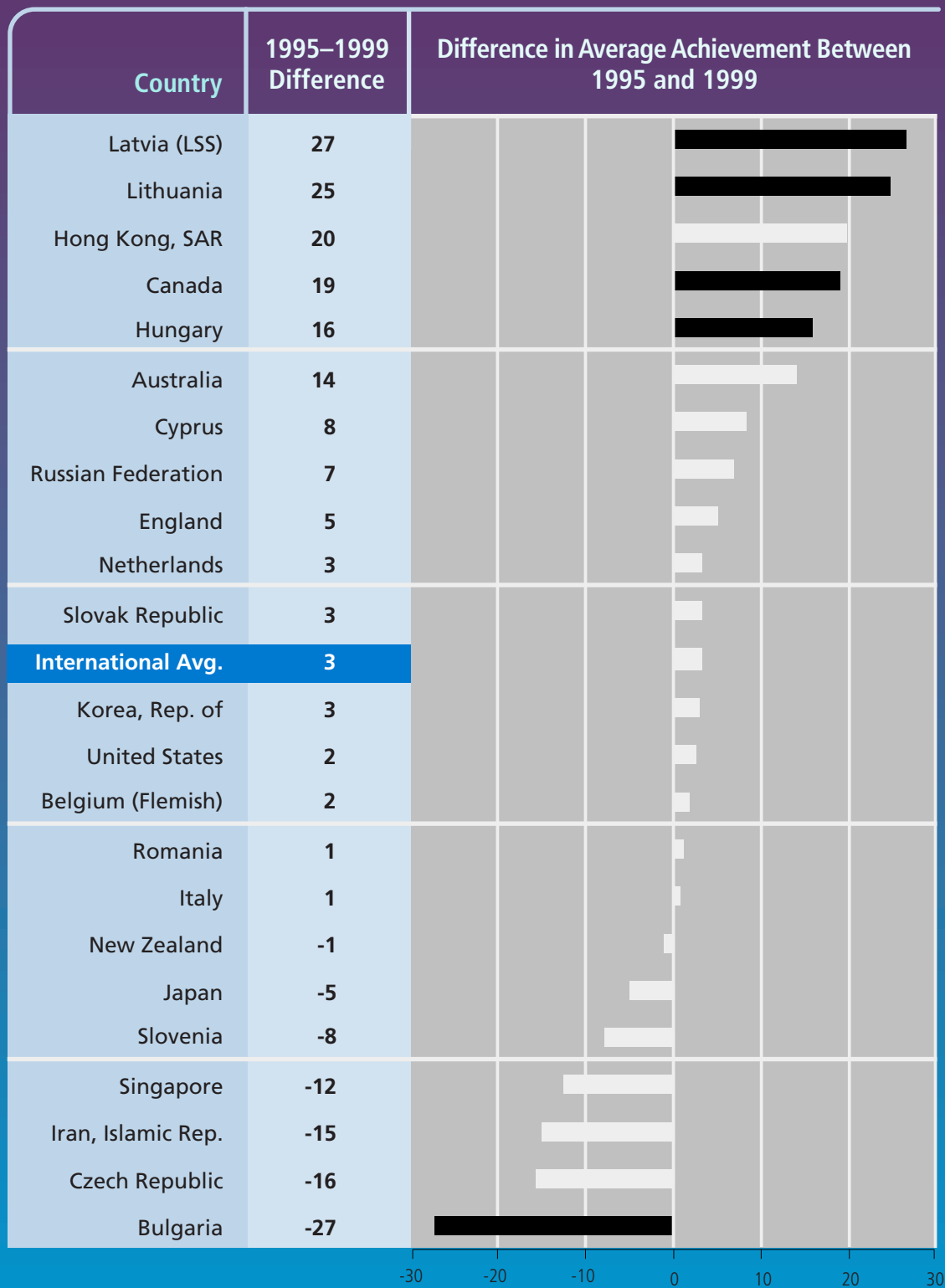
Difference statistically significant

* The international report contains standard errors for all survey estimates. Latvia is annotated LSS for Latvian-Speaking Schools only.
 SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998–1999.



Exhibit 4

Trends in Science Achievement Eighth Grade*



Difference statistically significant ■

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 SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998–1999.



TIMSS 1999 – Eighth Grade*

• Higher Achievement for Boys

	Mathematics	Science
Australia		
Belgium (Flemish)		
Bulgaria		
Canada		●
Chile		●
Chinese Taipei		●
Cyprus		
Czech Republic	●	●
England		●
Finland		
Hong Kong, SAR		
Hungary		●
Indonesia		
Iran, Islamic Rep.	●	●
Israel	●	
Italy		
Japan		
Jordan		
Korea, Rep. of		●
Latvia (LSS)		●
Lithuania		●
Malaysia		
Moldova		
Morocco		
Netherlands		●
New Zealand		
Philippines		
Romania		
Russian Federation		●
Singapore		
Slovak Republic		●
Slovenia		●
South Africa		
Thailand		
Tunisia	●	●
Turkey		
United States		●

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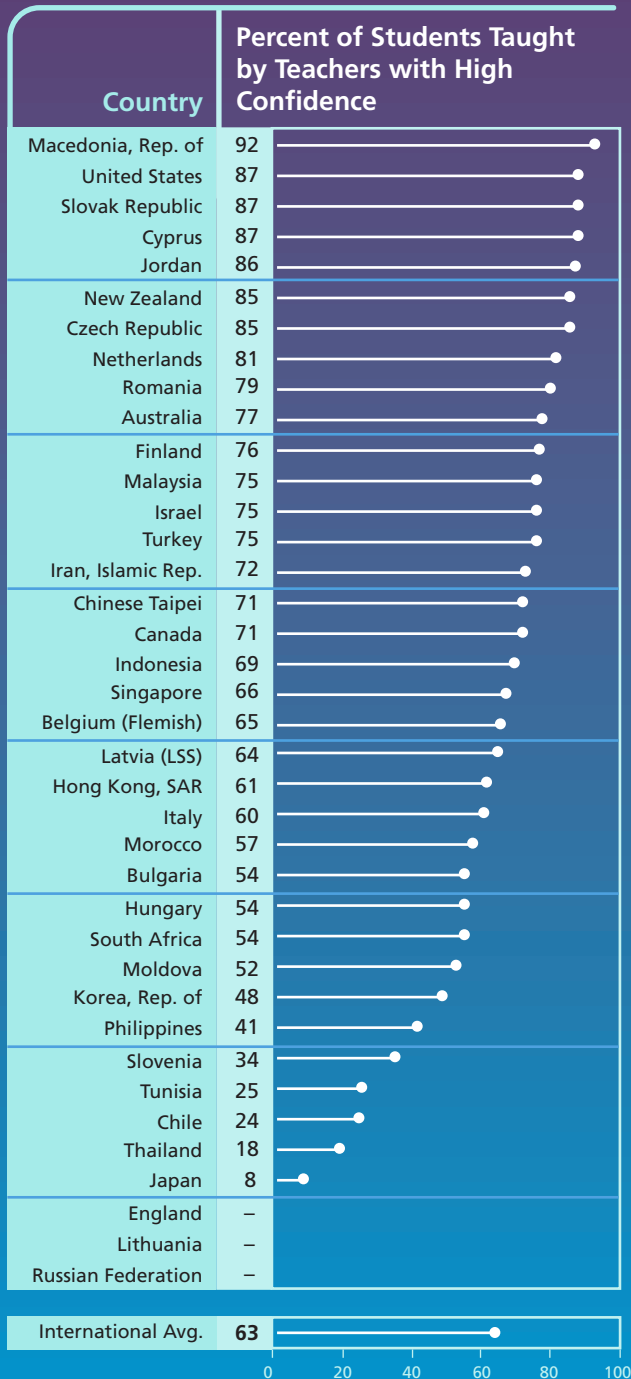
SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998–1999.



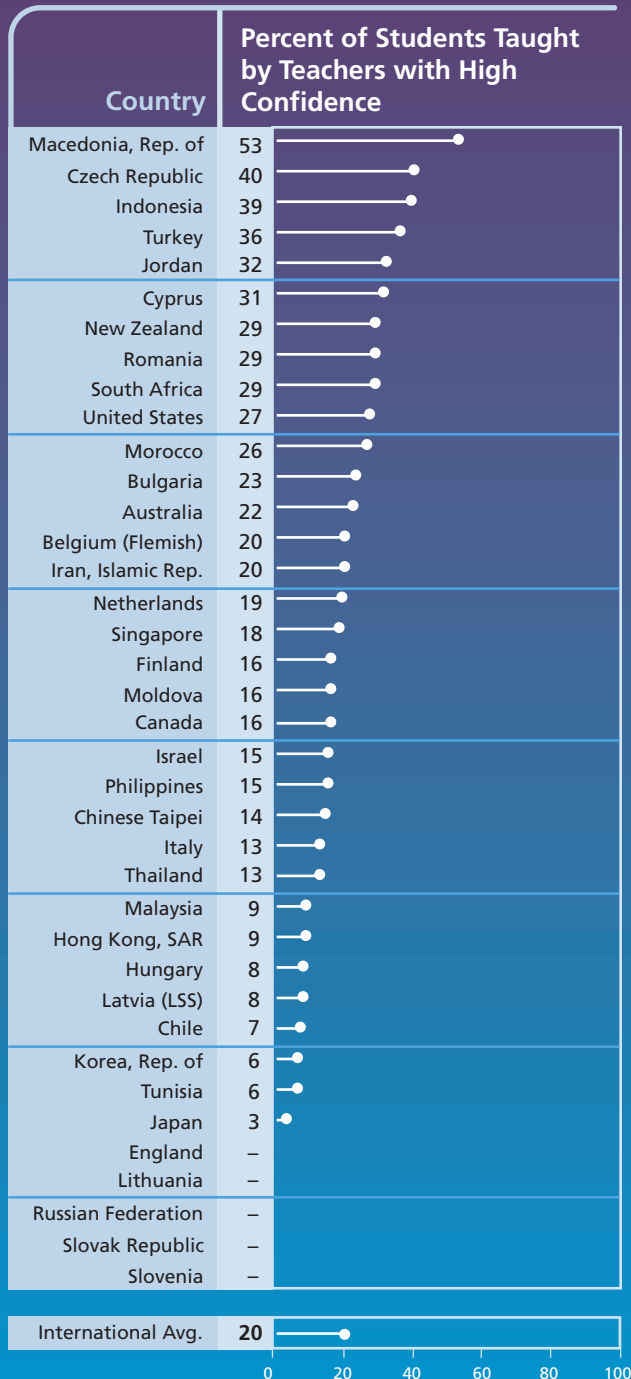
Exhibit 5

Teachers' Confidence in Their Preparation to Teach – Eighth Grade*

Mathematics



Science



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A dash (–) indicates data are not available

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998–1999.

