

**Appendix G.3: Standard Deviations of Science Achievement**

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Australia	524 (2.9)	76 (1.9)	524 (3.3)	74 (2.4)	523 (3.4)	77 (2.1)
Bahrain	459 (2.6)	105 (1.7)	478 (3.0)	96 (2.5)	439 (3.5)	110 (2.8)
Belgium (Flemish)	512 (2.3)	62 (1.2)	512 (2.6)	61 (1.6)	511 (2.6)	62 (1.4)
Bulgaria	536 (5.9)	95 (3.6)	540 (6.3)	94 (4.0)	532 (5.9)	96 (3.5)
Canada	525 (2.6)	73 (1.6)	526 (2.8)	71 (1.7)	524 (3.0)	75 (1.9)
Chile	478 (2.7)	74 (1.4)	477 (3.0)	71 (1.6)	478 (3.4)	76 (1.8)
Chinese Taipei	555 (1.8)	68 (1.1)	551 (2.2)	66 (1.3)	560 (2.4)	70 (1.4)
Croatia	533 (2.1)	62 (1.1)	532 (2.7)	61 (1.4)	534 (2.2)	63 (1.6)
Cyprus	481 (2.6)	76 (1.4)	481 (2.8)	74 (1.5)	481 (2.9)	78 (1.9)
Czech Republic	534 (2.4)	70 (1.4)	530 (2.8)	68 (1.6)	538 (2.7)	71 (1.7)
Denmark	527 (2.1)	69 (1.3)	525 (2.5)	67 (1.6)	529 (2.6)	71 (1.8)
England	536 (2.4)	70 (1.7)	536 (3.0)	67 (1.7)	536 (2.6)	72 (2.2)
Finland	554 (2.3)	65 (1.7)	560 (2.3)	61 (1.6)	548 (2.9)	67 (2.3)
France	487 (2.7)	73 (1.4)	487 (3.1)	71 (1.9)	487 (2.9)	74 (1.5)
Georgia	451 (3.7)	87 (2.5)	453 (3.9)	84 (2.8)	449 (4.6)	90 (3.3)
Germany	528 (2.4)	70 (1.3)	527 (2.7)	69 (1.6)	529 (2.6)	70 (1.7)
Hong Kong SAR	557 (2.9)	70 (1.4)	551 (3.9)	68 (1.9)	561 (3.3)	71 (1.7)
Hungary	542 (3.3)	83 (2.7)	538 (3.5)	81 (2.7)	546 (3.9)	84 (3.4)
Indonesia	397 (4.8)	103 (2.1)	401 (5.2)	101 (3.1)	393 (5.3)	104 (2.7)
Iran, Islamic Rep. of	421 (4.0)	103 (3.0)	427 (5.2)	98 (3.6)	415 (5.6)	106 (3.9)
Ireland	529 (2.4)	70 (2.0)	526 (2.9)	67 (1.9)	531 (2.9)	72 (2.7)
Italy	516 (2.6)	66 (1.3)	512 (3.1)	66 (1.7)	521 (2.8)	67 (1.5)
Japan	569 (1.8)	65 (1.0)	567 (2.0)	62 (1.2)	571 (2.3)	68 (1.5)
Kazakhstan	550 (4.4)	85 (2.5)	552 (4.5)	83 (2.7)	547 (4.7)	87 (2.6)
Korea, Rep. of	589 (2.0)	62 (0.9)	584 (2.3)	60 (1.2)	595 (2.3)	64 (1.3)
Kuwait	337 (6.2)	126 (2.0)	352 (7.6)	121 (2.6)	322 (7.6)	130 (2.9)
Lithuania	528 (2.5)	69 (1.2)	529 (2.9)	67 (1.7)	526 (3.1)	71 (1.7)
Morocco	352 (4.7)	120 (2.7)	358 (4.7)	116 (2.9)	347 (5.7)	123 (3.7)
Netherlands	517 (2.7)	60 (1.3)	517 (2.8)	58 (1.3)	517 (3.0)	62 (1.7)
New Zealand	506 (2.7)	85 (1.6)	507 (3.2)	82 (2.1)	504 (3.0)	88 (1.7)
Northern Ireland	520 (2.2)	70 (1.5)	520 (3.0)	69 (2.2)	520 (2.8)	70 (1.7)
Norway (5)	538 (2.6)	63 (1.5)	538 (3.1)	60 (1.2)	537 (3.1)	65 (2.2)
Oman	431 (3.1)	119 (1.8)	447 (3.4)	115 (1.9)	415 (3.6)	121 (2.2)
Poland	547 (2.4)	69 (1.4)	548 (2.5)	66 (1.5)	546 (3.0)	72 (2.0)
Portugal	508 (2.2)	60 (1.0)	504 (2.5)	60 (1.3)	512 (2.4)	60 (1.6)
Qatar	436 (4.1)	111 (2.2)	448 (4.7)	103 (3.2)	424 (6.0)	117 (3.0)
Russian Federation	567 (3.2)	69 (1.9)	567 (3.1)	68 (2.1)	567 (3.7)	69 (2.1)
Saudi Arabia	390 (4.9)	116 (2.9)	431 (5.3)	98 (2.9)	352 (7.6)	118 (4.1)
Serbia	525 (3.7)	81 (3.4)	526 (3.6)	75 (2.3)	523 (4.9)	86 (5.5)
Singapore	590 (3.7)	85 (2.6)	591 (3.7)	83 (2.8)	590 (4.2)	86 (2.7)
Slovak Republic	520 (2.6)	85 (1.9)	516 (3.2)	84 (2.5)	524 (2.7)	85 (1.9)
Slovenia	543 (2.4)	70 (1.5)	539 (2.4)	66 (1.9)	546 (3.1)	73 (1.9)
Spain	518 (2.6)	69 (1.6)	515 (2.9)	67 (1.8)	521 (2.9)	71 (2.4)
Sweden	540 (3.6)	73 (2.5)	544 (4.1)	72 (2.5)	536 (3.5)	74 (3.0)
Turkey	483 (3.3)	92 (2.5)	484 (3.3)	88 (2.6)	483 (4.0)	96 (2.9)
United Arab Emirates	451 (2.8)	121 (1.5)	459 (4.4)	115 (2.2)	444 (4.0)	126 (2.4)
United States	546 (2.2)	81 (1.2)	544 (2.4)	79 (1.3)	548 (2.5)	82 (1.6)

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

**Appendix G.3: Standard Deviations of Science Achievement (Continued)**

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
<b>Benchmarking Participants</b>						
Buenos Aires, Argentina	418 (4.7)	89 (1.9)	420 (5.7)	89 (2.1)	416 (4.8)	89 (2.5)
Ontario, Canada	530 (2.5)	72 (1.3)	533 (2.9)	70 (1.6)	528 (3.1)	74 (1.5)
Quebec, Canada	525 (4.1)	65 (1.6)	525 (3.6)	62 (2.1)	524 (5.3)	69 (2.4)
Norway (4)	493 (2.2)	69 (1.6)	493 (2.6)	67 (2.4)	493 (2.7)	71 (1.8)
Abu Dhabi, UAE	415 (5.6)	125 (2.9)	423 (9.0)	118 (3.8)	408 (8.3)	131 (3.5)
Dubai, UAE	518 (1.8)	105 (1.3)	524 (3.4)	98 (2.4)	512 (3.4)	110 (2.6)
Florida, US	549 (4.8)	78 (2.5)	552 (5.1)	75 (3.1)	545 (5.4)	80 (2.6)

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015