

Exhibit 1.3: Multiple Comparisons of Average Science Achievement

Instructions: Read across the row for a country to compare performance with the countries listed along the top of the chart. The symbols indicate whether the average achievement of the country in the row is significantly lower than that of the comparison country, significantly higher than that of the comparison country, or if there is no statistically significant difference between the average achievement of the two countries.

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

⌚ Average achievement significantly higher than comparison country

- ▼ Average achievement significantly lower than comparison country

Significance tests were not adjusted for multiple comparisons. Five percent of the comparisons would be statistically significant by chance alone.

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

**Exhibit 1.3: Multiple Comparisons of Average Science Achievement
(Continued)**

Country	Average Scale Score	Belgium (Flemish)	Portugal	New Zealand	France	Turkey	Cyprus	Chile	Bahrain	Georgia	United Arab Emirates	Qatar	Oman	Iran, Islamic Rep. of	Indonesia	Saudi Arabia	Morocco	Kuwait	Benchmarking Participants
Singapore	590 (3.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Florida, US
Korea, Rep. of	589 (2.0)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Ontario, Canada
Japan	569 (1.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Quebec, Canada
Russian Federation	567 (3.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Dubai, UAE
Hong Kong SAR	557 (2.9)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Norway (4)
Chinese Taipei	555 (1.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Buenos Aires, Argentina
Finland	554 (2.3)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Abu Dhabi, UAE
Kazakhstan	550 (4.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Poland	547 (2.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
United States	546 (2.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Slovenia	543 (2.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Hungary	542 (3.3)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Sweden	540 (3.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Norway (5)	538 (2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
England	536 (2.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Bulgaria	536 (5.9)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Czech Republic	534 (2.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Croatia	533 (2.1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Ireland	529 (2.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Germany	528 (2.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Lithuania	528 (2.5)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Denmark	527 (2.1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Canada	525 (2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Serbia	525 (3.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Australia	524 (2.9)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Slovak Republic	520 (2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Northern Ireland	520 (2.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Spain	518 (2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Netherlands	517 (2.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Italy	516 (2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Belgium (Flemish)	512 (2.3)				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Portugal	508 (2.2)				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
New Zealand	506 (2.7)				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
France	487 (2.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Turkey	483 (3.3)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Cyprus	481 (2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Chile	478 (2.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Bahrain	459 (2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Georgia	451 (3.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
United Arab Emirates	451 (2.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Qatar	436 (4.1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Oman	431 (3.1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Iran, Islamic Rep. of	421 (4.0)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Indonesia	397 (4.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Saudi Arabia	390 (4.9)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Morocco	352 (4.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Kuwait	337 (6.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Benchmarking Participants																			
Florida, US	549 (4.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Ontario, Canada	530 (2.5)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Quebec, Canada	525 (4.1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Dubai, UAE	518 (1.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Norway (4)	493 (2.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Buenos Aires, Argentina	418 (4.7)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Abu Dhabi, UAE	415 (5.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

● Average achievement significantly higher than comparison country

● Average achievement significantly lower than comparison country

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