## APPENDIX TABLE 1-18 III

## Average TIMSS science scores of students in grade 4, by education system: 2015

(Average score)

Education system	Grade 4	Comparison with U.S. scor
TIMSS scale centerpoint	500	
Singapore <sup>a</sup>	590	
South Korea	589	
Japan	569	
Russia	567	
Hong Kong (China) <sup>b</sup>	557	
Taiwan (China)	555	
Finland	554	
Kazakhstan	550	
Poland	547	
United States <sup>a,b</sup>	546	
Slovenia	543	
Hungary	542	
Sweden <sup>a</sup>	540	
Norway (5 years of school)	538	
Bulgaria	536	
England (UK)	536	
Czech Republic	534	
Croatia	533	
Ireland	529	
Germany	528	
Lithuania <sup>a</sup>	528	
Denmark <sup>a,b</sup>	527	
Canada <sup>a,b,c</sup>	525	
Serbia <sup>d</sup>	525	

Education system	Grade 4	Comparison with U.S. sco
Australia	524	
Northern Ireland (UK) <sup>e</sup>	520	
Slovakia	520	
Spain <sup>a</sup>	518	
Netherlands <sup>b</sup>	517	
ltaly <sup>a</sup>	516	
Belgium (Flemish) <sup>b</sup>	512	
Portugal <sup>a</sup>	508	
New Zealand	506	
France	487	
Turkey	483	
Cyprus	481	
Chile	478	
Bahrain <sup>a</sup>	459	
Georgia <sup>C</sup>	451	
United Arab Emirates	451	
Qatar	436	
Oman	431	
Iran	421	
Indonesia	397	
Saudi Arabia	390	
Morocco <sup>f</sup>	352	
Kuwait <sup>f</sup>	337	

 $<sup>\</sup>approx$  = not significantly different from the U.S. score at the 0.05 level;  $^{\circ}$  = significantly higher than the U.S. score at the 0.05 level;  $^{\circ}$  = significantly lower than the U.S. score at the 0.05 level.

TIMSS = Trends in International Mathematics and Science Study; UK = United Kingdom.

<sup>&</sup>lt;sup>a</sup> National defined population covers 90% to 95% of the national target population.

<sup>&</sup>lt;sup>b</sup> These education systems met guidelines for sample participation rates only after replacement schools were included.

- <sup>C</sup> National target population does not include all of the international target population.
- <sup>d</sup> National defined population covers less than 90% of the national target population (but at least 77%).
- <sup>e</sup> Nearly satisfied guidelines for sample participation rates after replacement schools were included.
- f Reservations about reliability exist because the percentage of students with achievement too low for estimation exceeds 15% but does not exceed 25%.

## Note(s)

Education systems are ordered by average score. Education systems that are not countries are designated by the appended three-letter international abbreviation for their country. The TIMSS scale centerpoint is set at 500 points and represents the mean of the overall achievement distribution in 1995. The TIMSS scale is the same in each administration; thus, a value of 500 in 2015 equals 500 in 1995. For TIMSS 2015, Norway revised its assessed population to students in their fifth and ninth years of schooling to obtain better comparisons with Sweden and Finland. However, in previous TIMSS cycles, Norway assessed students in their fourth and eighth years of schooling, which were defined as fourth and eighth grades but have been redefined as third and seventh grades because year 1 in Norway is now considered the equivalent of a year of kindergarten. To maintain trends with previous TIMSS cycles, in 2015, Norway also collected data from students in their fourth and eighth years of schooling, which is used in trend tables.

## Source(s)

Provasnik S, Malley L, Stephens M, Landeros K, Perkins R, Tang JH, *Highlights from TIMSS and TIMSS Advanced 2015: Mathematics and Science Achievement of U.S. Students in Grades 4 and 8 and in Advanced Courses at the End of High School in an International Context*, NCES 2017-002 (2016).

Science and Engineering Indicators 2018