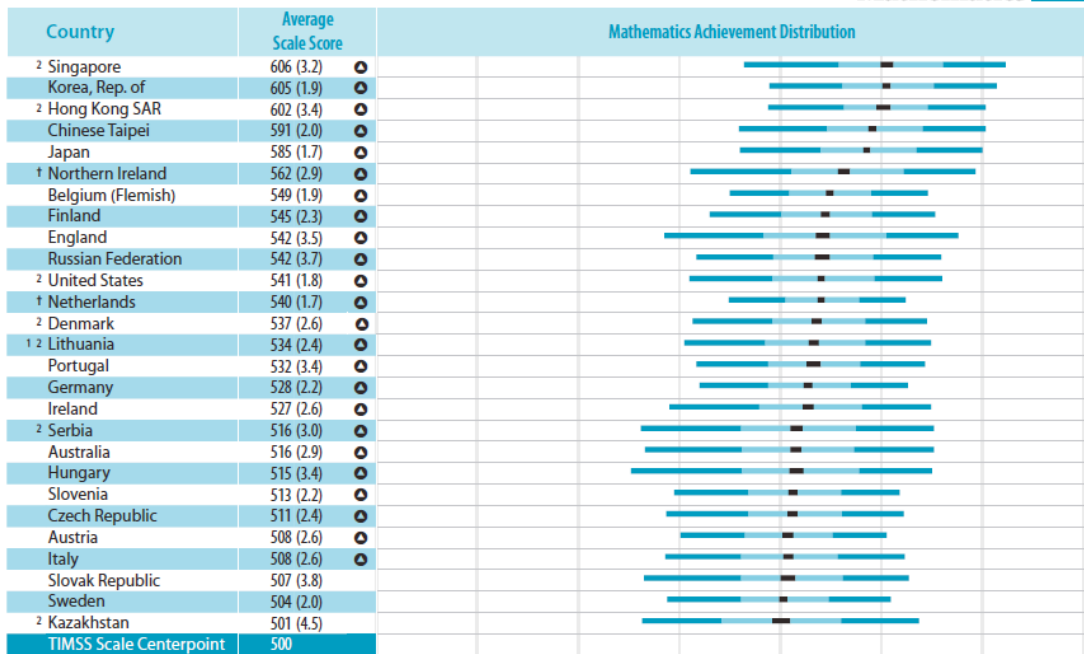


TIMSS 2011 Selected Data Relevant to US and CT (CT was an 8th Grade Benchmark)

Exhibit 1.1: Distribution of Mathematics Achievement

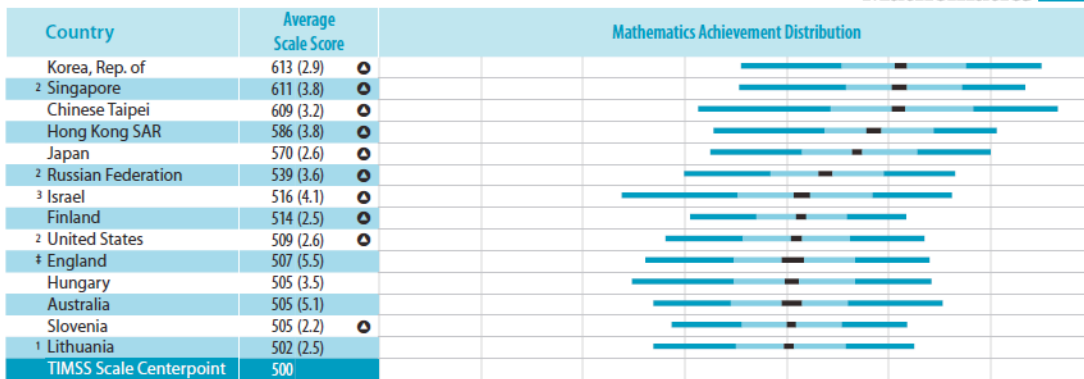
TIMSS 2011
Mathematics 4th Grade



SOURCE: IEA's Trends in International Mathematics and Science Study—TIMSS 2011

Exhibit 1.2: Distribution of Mathematics Achievement

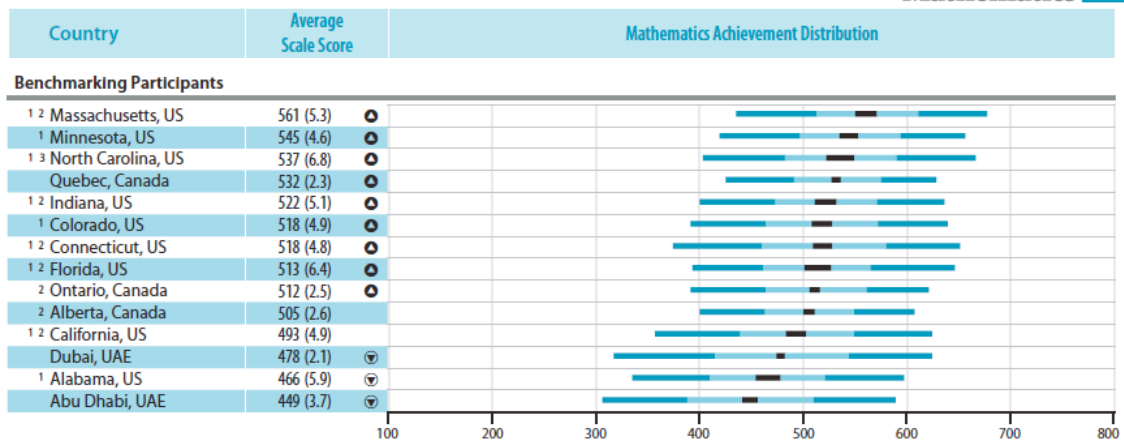
TIMSS 2011
Mathematics 8th Grade



SOURCE: IEA's Trends in International Mathematics and Science Study—TIMSS 2011

Exhibit 1.2: Distribution of Mathematics Achievement (Continued)

TIMSS 2011
Mathematics 8th Grade



SOURCE: IEA's Trends in International Mathematics and Science Study—TIMSS 2011

- Country average significantly higher than the centerpoint of the TIMSS 8th grade scale
- ⊖ Country average significantly lower than the centerpoint of the TIMSS 8th grade scale

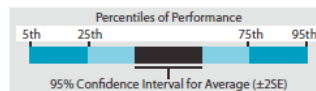


Exhibit 1.5: Trends in Mathematics Achievement (Continued)

Instructions: Read across the row to determine if the performance in the row year is significantly higher (⬆) or significantly lower (⬇) than the performance in the column year.

Country	Average Scale Score	Differences Between Years			Mathematics Achievement Distribution	
		2007	2003	1995		
United States						
2	2011	541 (1.8)	12 ⬆	22 ⬆	23 ⬆	
2	2007	529 (2.4)		11 ⬆	11 ⬆	
1	2003	518 (2.4)			0	
	1995	518 (2.9)				

Exhibit 1.6: Trends in Mathematics Achievement (Continued)

Instructions: Read across the row to determine if the performance in the row year is significantly higher (⬆) or significantly lower (⬇) than the performance in the column year.

Country	Average Scale Score	Differences Between Years				Mathematics Achievement Distribution	
		2007	2003	1999	1995		
United States							
2	2011	509 (2.6)	1	5	8	17 ⬆	
2	2007	508 (2.8)		4	7	16 ⬆	
1	2003	504 (3.3)			3	12 ⬆	
	1999	502 (4.0)				9	
1	1995	492 (4.7)					

Benchmarking Participants

Connecticut, US						
1	2011	518 (4.8)			5	
	1999	512 (9.1)				

- ⬆ Country average significantly higher than the centerpoint of the TIMSS 8th grade scale
- ⬇ Country average significantly lower than the centerpoint of the TIMSS 8th grade scale

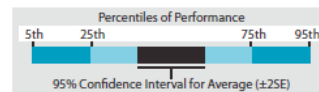


Exhibit 1.7: Trends in Mathematics Achievement – 1995 Through 2011*

Includes only 2011 participants with comparable long term trend data beginning in 1995, ordered by most to least improvement in average achievement. Exhibit 1.5 provides details including statistical significance.

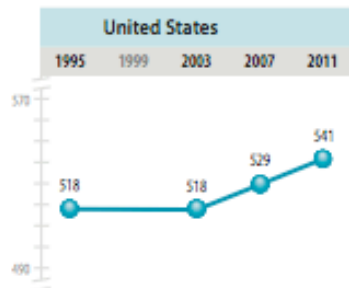


Exhibit 1.8: Trends in Mathematics Achievement – 1995 Through 2011

Includes only 2011 participants with comparable long term trend data beginning in either 1995 or 1999, ordered by most to least improvement in average achievement. Exhibit 1.6 provides details including statistical significance.

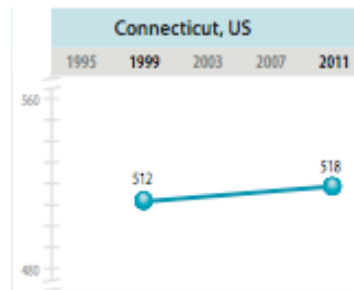
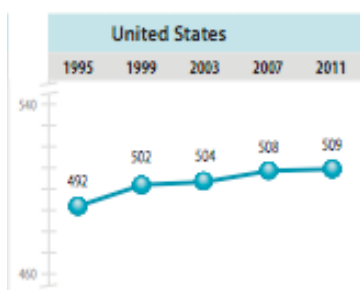


Exhibit 1.12: Trends in Mathematics Achievement by Gender² (Continued)

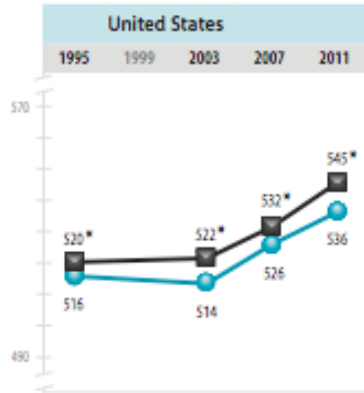


Exhibit 1.13: Trends in Mathematics Achievement by Gender (Continued)

