

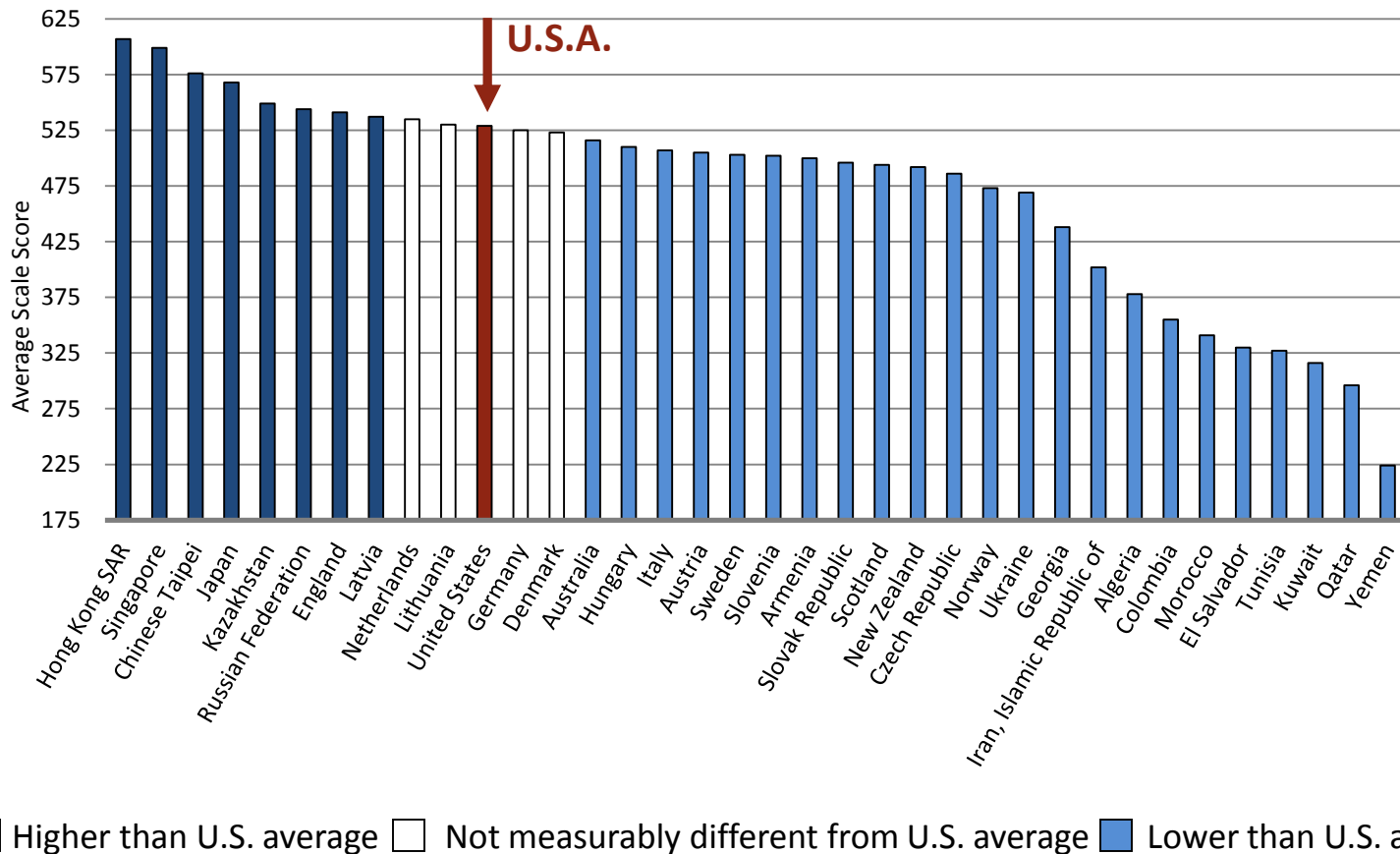
Trends in International Mathematics and Science Study (TIMSS) 2007



How does United States
performance compare to all
countries participating in TIMSS?

TIMSS 2007 Grade 4 Math

U.S.A. Ranked 11th out of 36 Countries

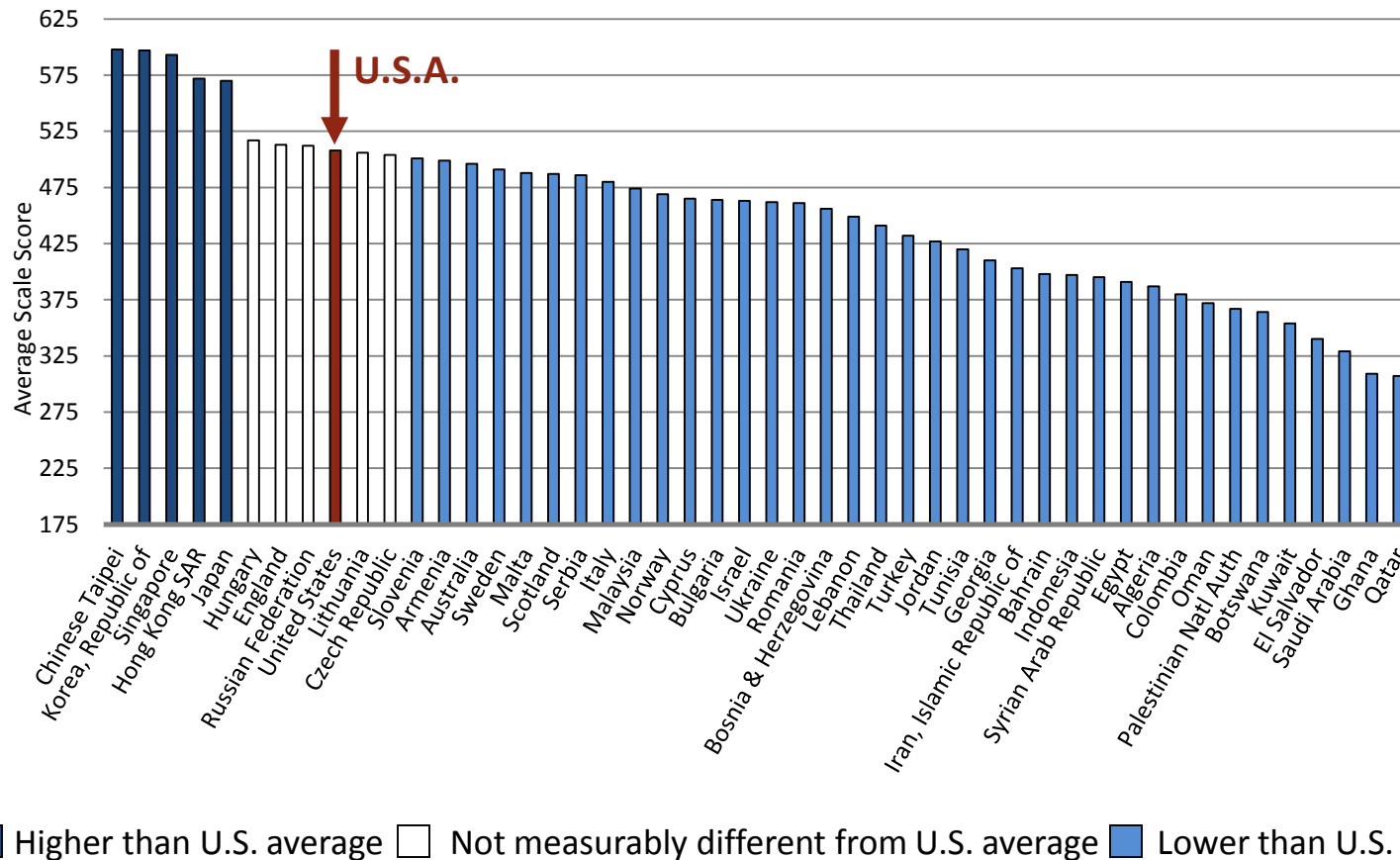


■ Higher than U.S. average □ Not measurably different from U.S. average ■ Lower than U.S. average

Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 8 Math

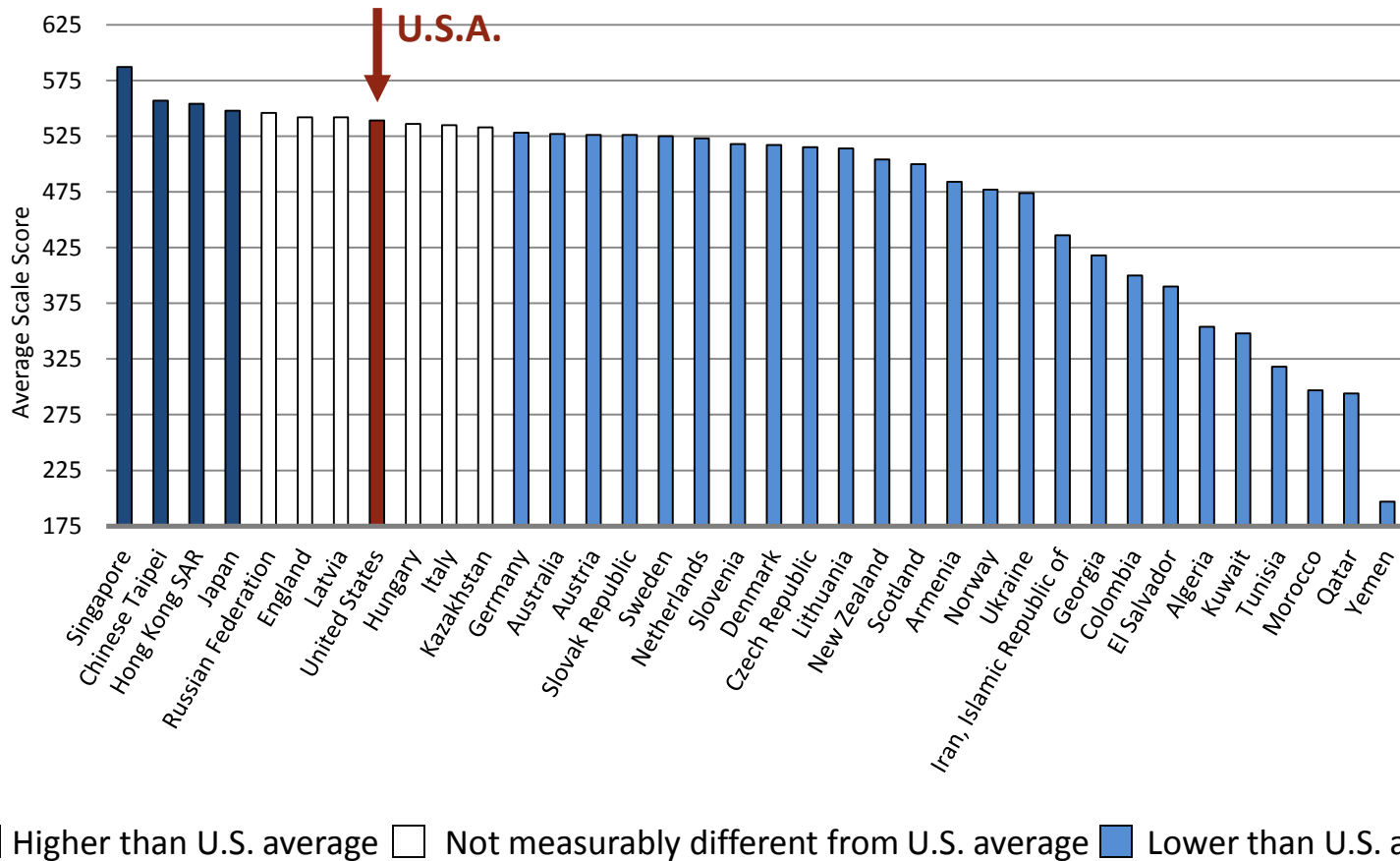
U.S.A. Ranked 9th out of 48 Countries



Source: Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007, NCES (2008)

TIMSS 2007 Grade 4 Science

U.S.A. Ranked 8th out of 36 Countries

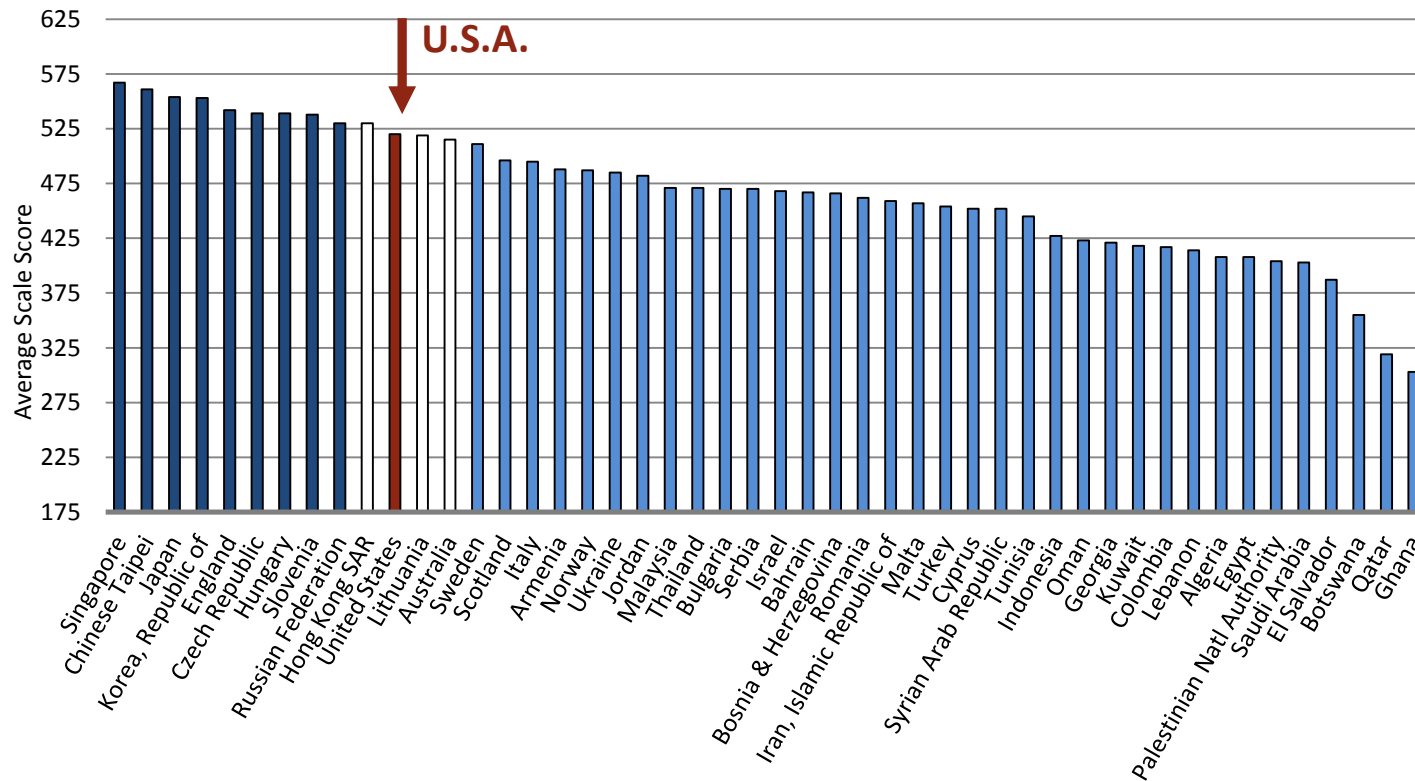


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TIMSS 2007 Grade 8 Science

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 Not measurably different from U.S. average
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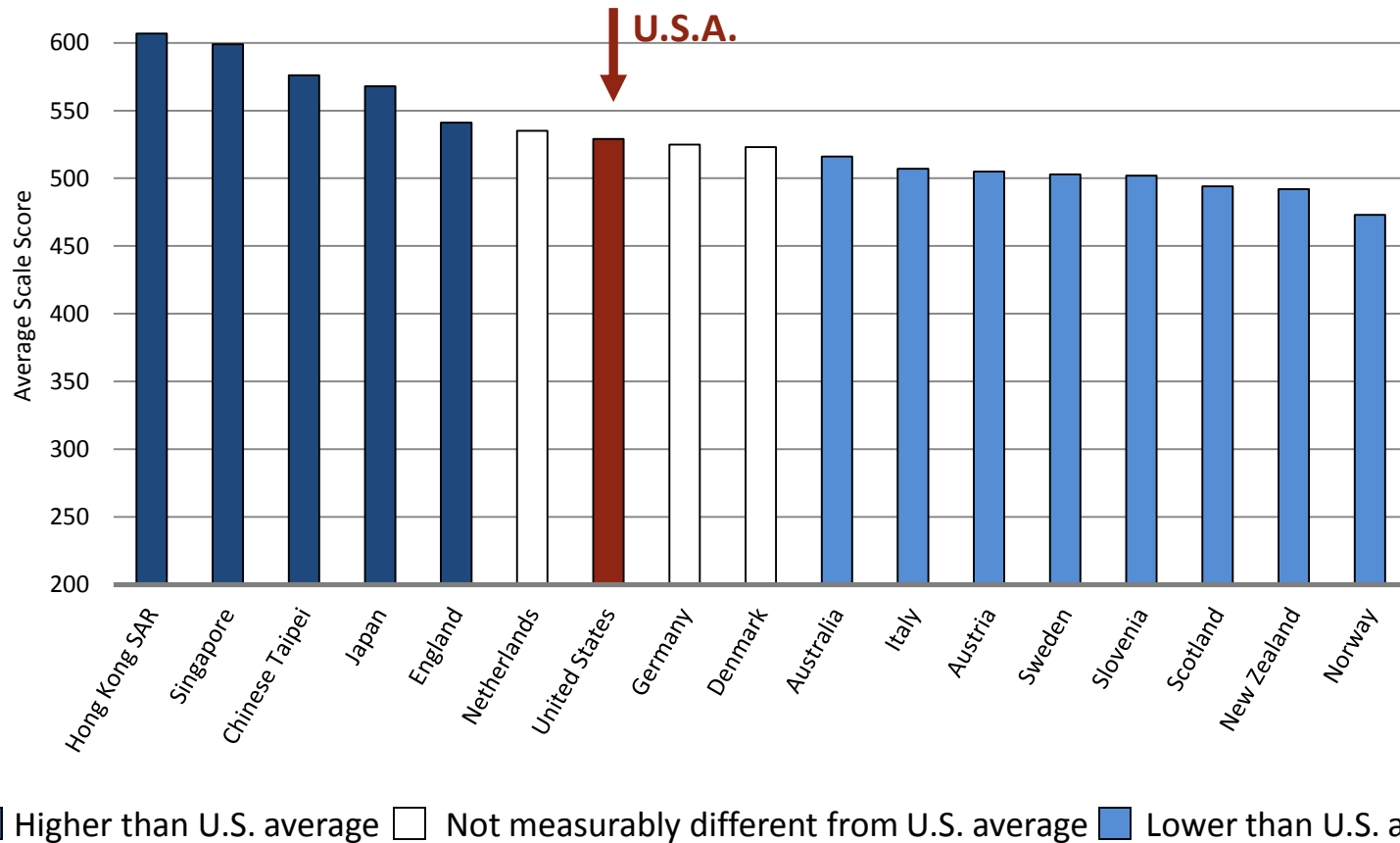
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

How does United States
performance compare to that of its
peer* countries?

*Countries classified by the IMF as advanced economies

TIMSS 2007 Grade 4 Math

U.S.A. Ranked 7th out of 17 IMF Advanced Economies

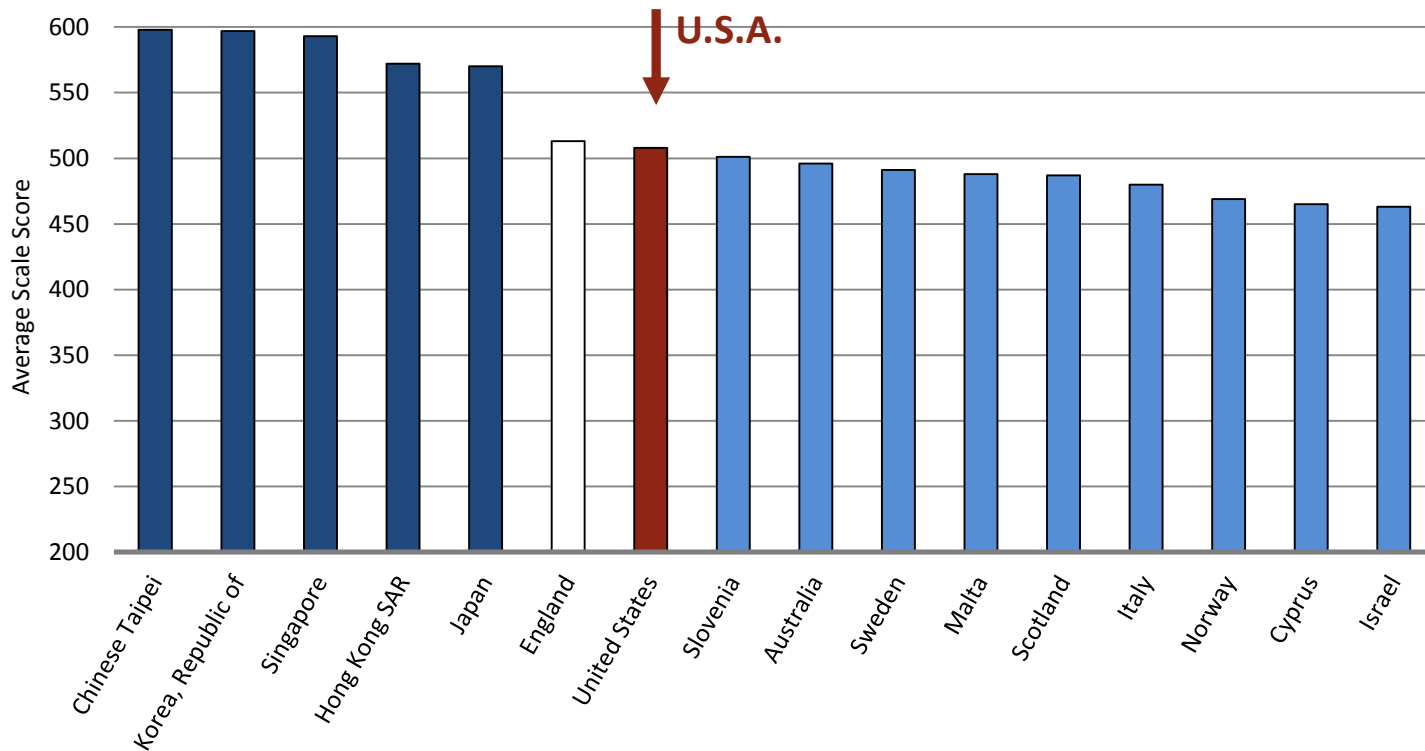


■ Higher than U.S. average □ Not measurably different from U.S. average ■ Lower than U.S. average

Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 8 Math

U.S.A. Ranked 7th out of 16 IMF Advanced Economies

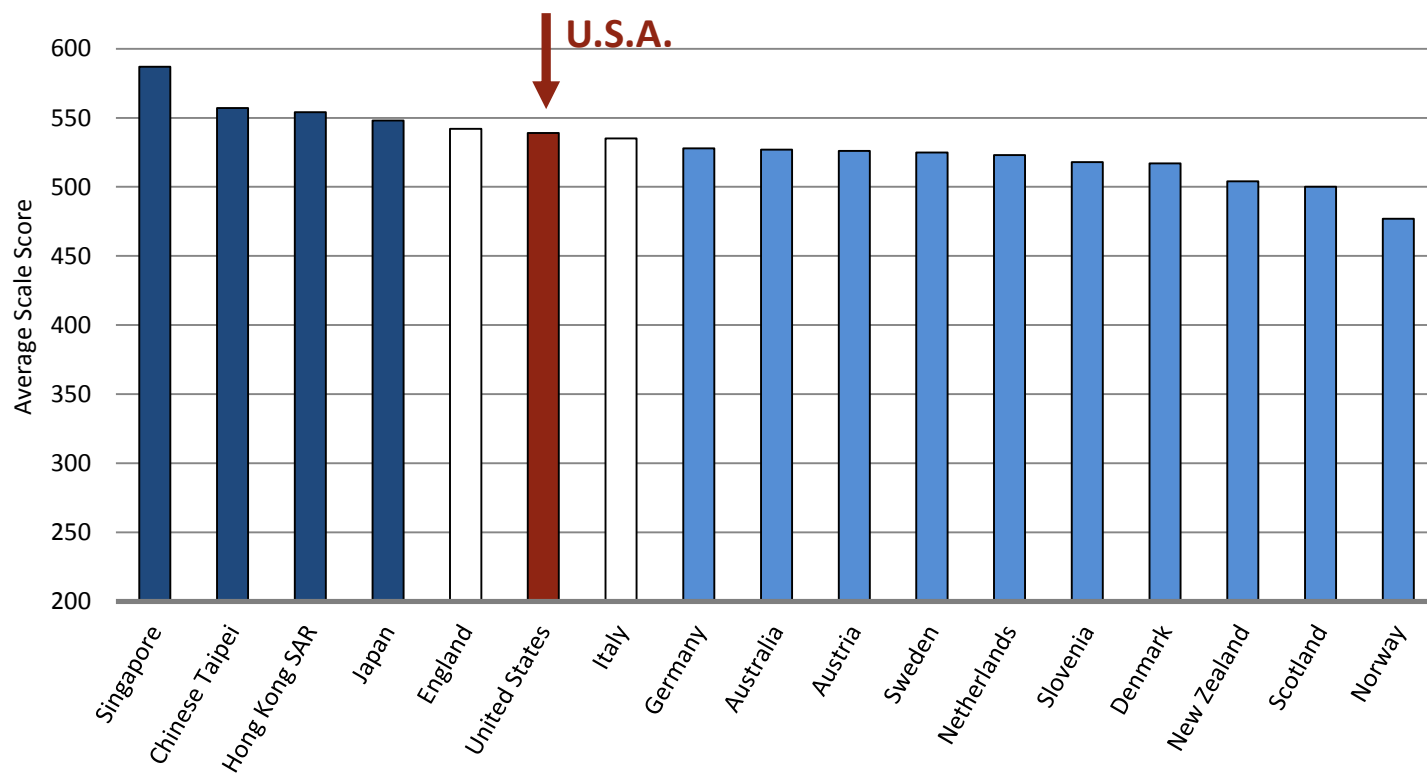


■ Higher than U.S. average □ Not measurably different from U.S. average ■ Lower than U.S. average

Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 4 Science

U.S.A. Ranked 6th out of 17 IMF Advanced Economies

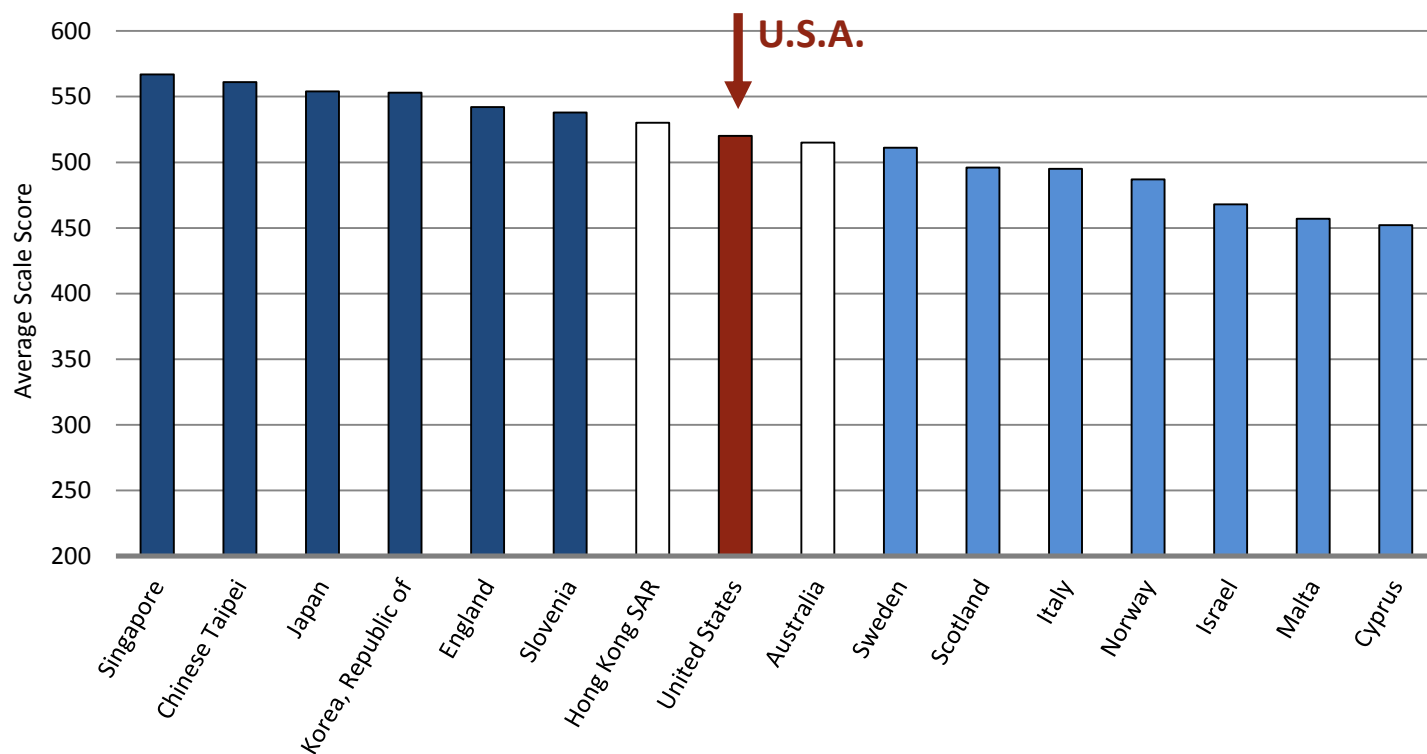


■ Higher than U.S. average □ Not measurably different from U.S. average ■ Lower than U.S. average

Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 8 Science

U.S.A. Ranked 8th out of 16 IMF Advanced Economies



■ Higher than U.S. average □ Not measurably different from U.S. average ■ Lower than U.S. average

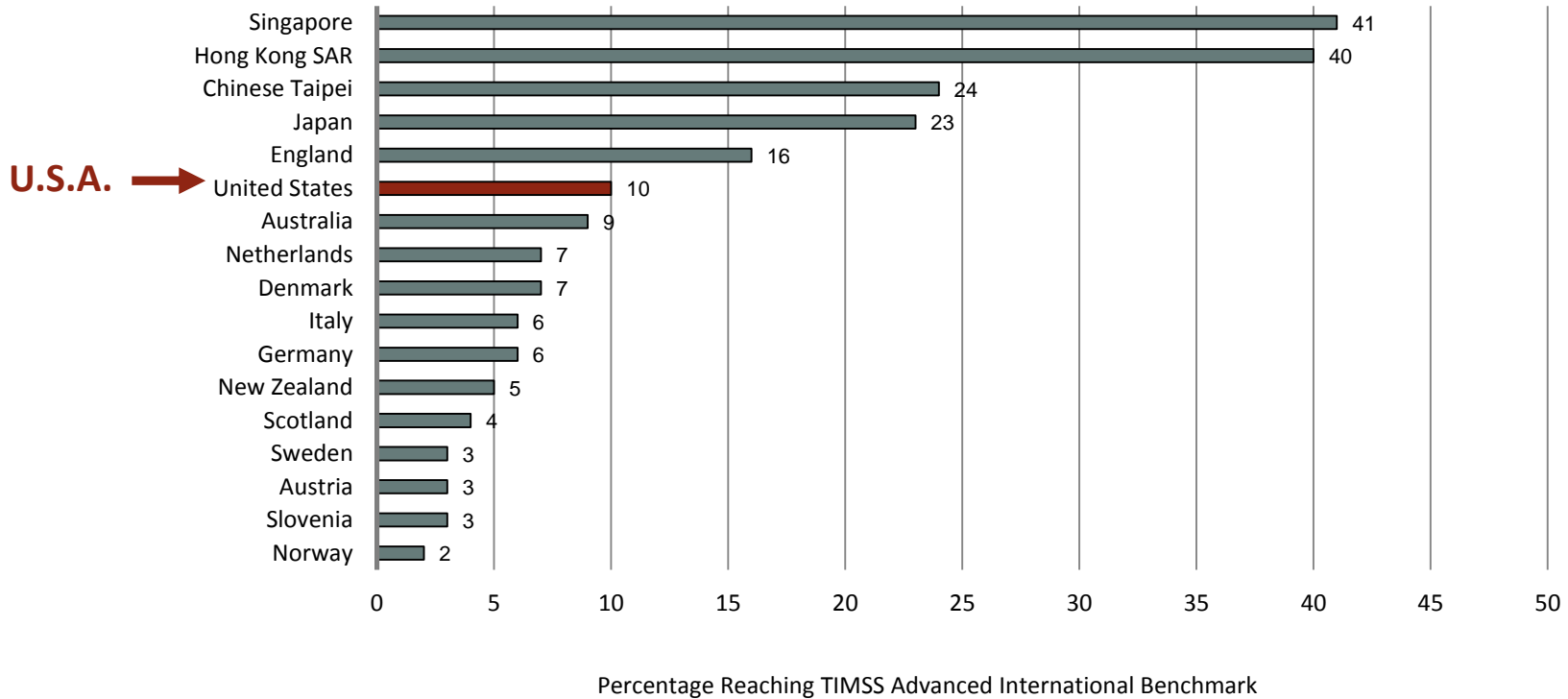
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

How does the United States compare to its peer* countries in terms of the percentage of students meeting the TIMSS advanced benchmark?

*Countries classified by the IMF as advanced economies

TIMSS 2007 Grade 4 Math

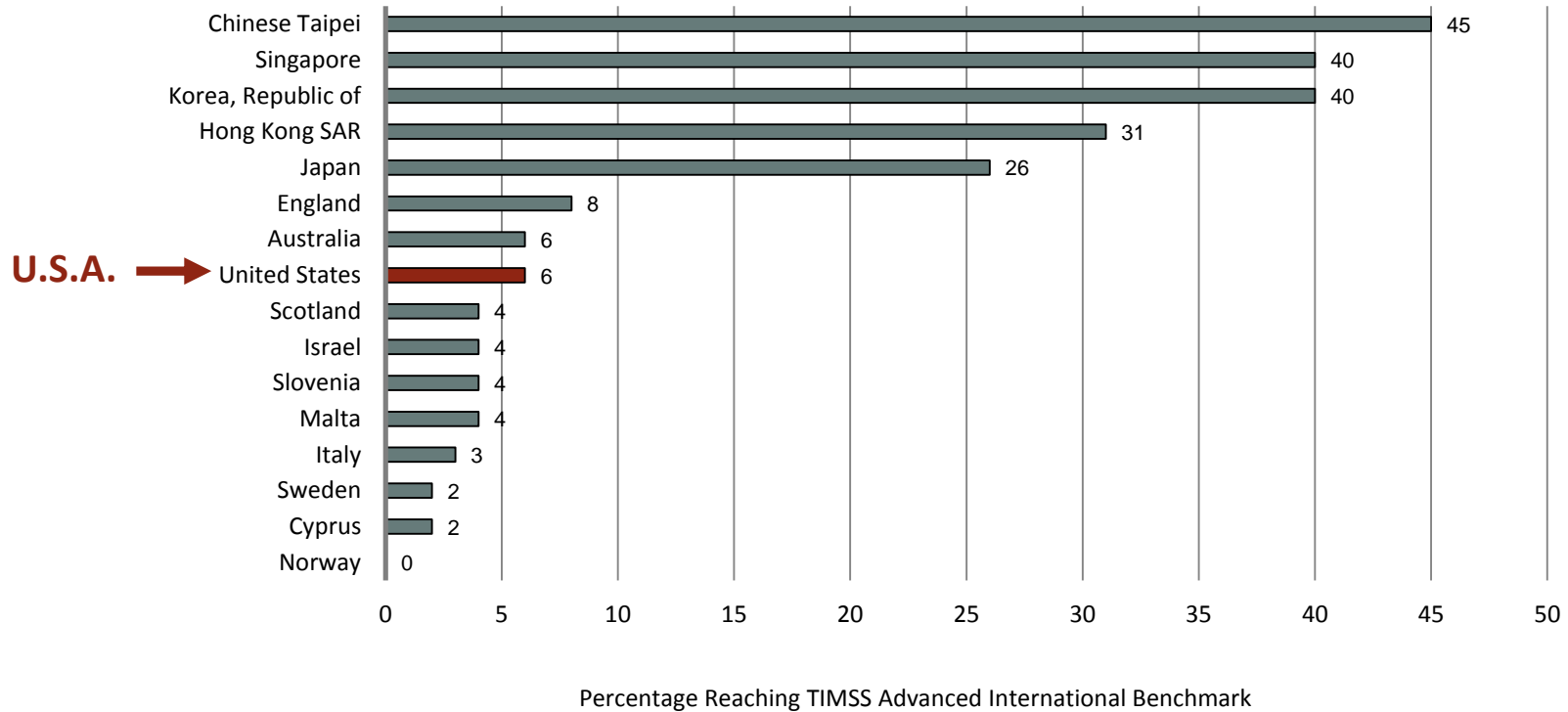
IMF Advanced Economies – Percentage Advanced



Percentage Reaching TIMSS Advanced International Benchmark

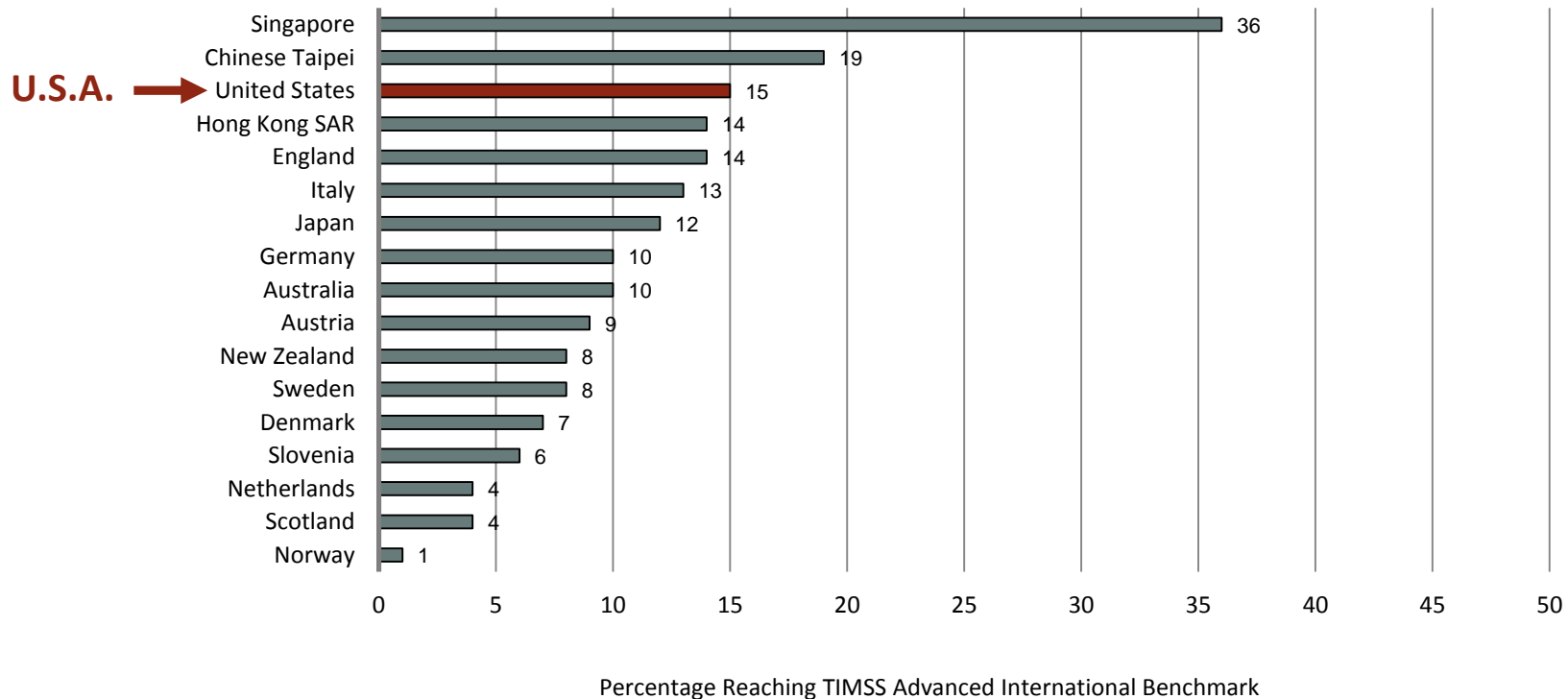
TIMSS 2007 Grade 8 Math

IMF Advanced Economies – Percentage Advanced



TIMSS 2007 Grade 4 Science

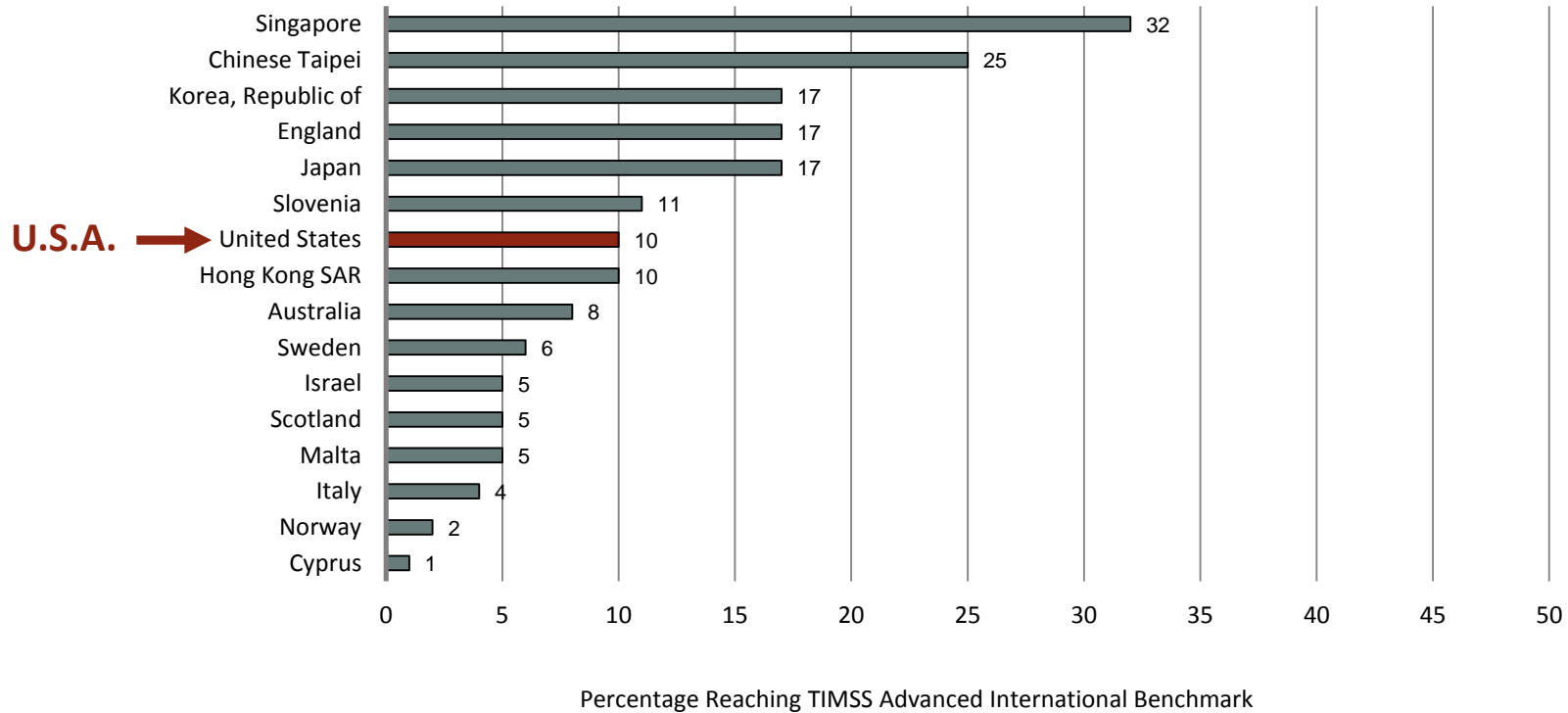
IMF Advanced Economies – Percentage Advanced



Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 8 Science

IMF Advanced Economies – Percentage Advanced



Which countries have made
substantial improvement on TIMSS?

TIMSS Grade 4 Math

U.S.A. Compared to Top Improvers

Country	Average Score		Difference
	1995	2007	
U.S.A.	518	529	11
England	484	541	57
Hong Kong SAR	557	607	50
Slovenia	462	502	40
Latvia	499	537	38

TIMSS Grade 8 Math

U.S.A. Compared to Top Improvers

Country	Average Score		Difference
	1995	2007	
U.S.A.	492	508	16
Colombia	332	380	47
Lithuania	472	506	34

TIMSS Grade 4 Science

U.S.A. Compared to Top Improvers

Country	Average Score		Difference
	1995	2007	
U.S.A.	542	539	-3
Singapore	523	587	63
Latvia	486	542	56
Islamic Rep. of Iran	380	436	55
Slovenia	464	518	54
Hong Kong SAR	508	554	46
Hungary	508	536	28
England	528	542	14

Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS Grade 8 Science

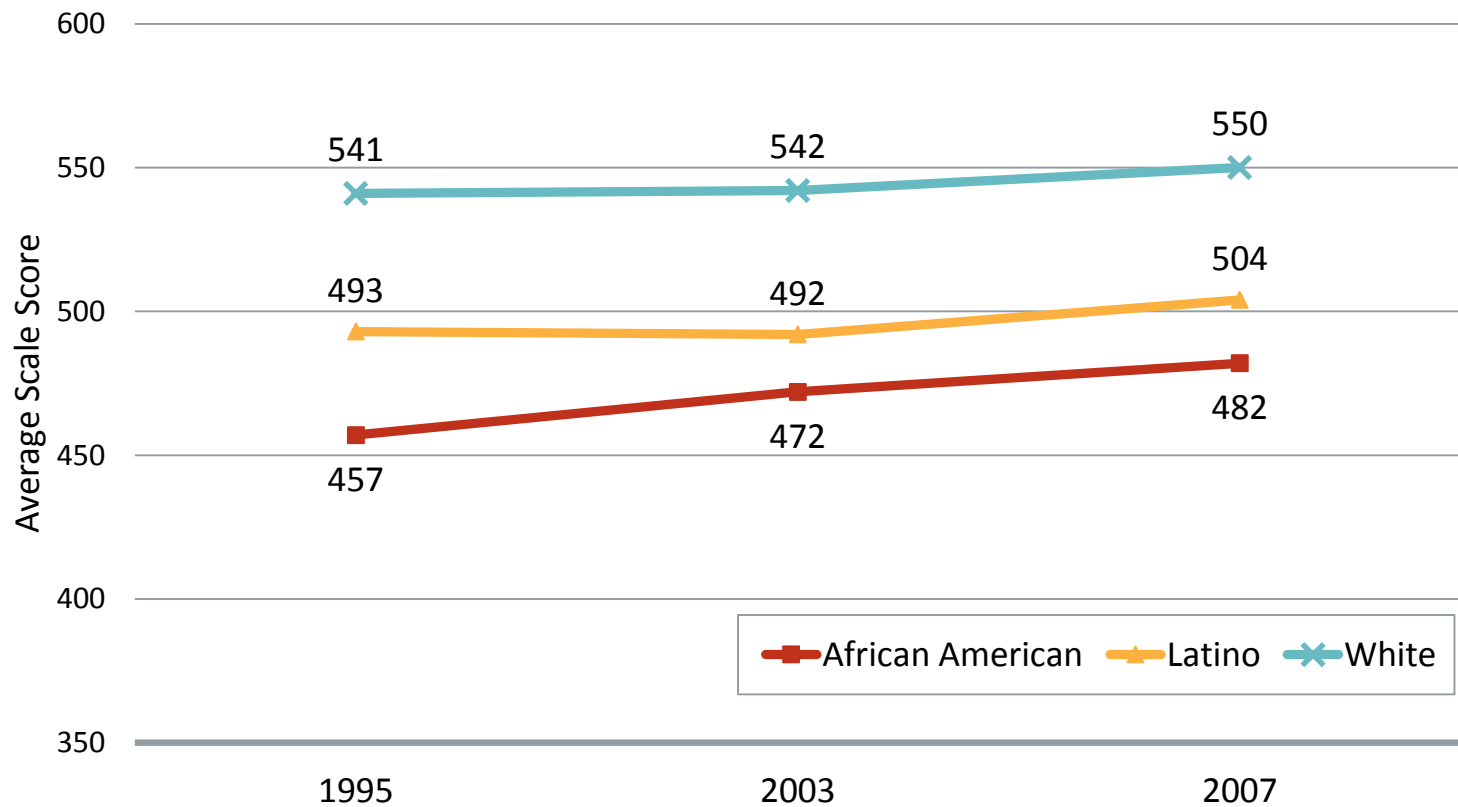
U.S.A. Compared to Top Improvers

Country	Average Score		Difference
	1995	2007	
U.S.A.	513	520	7
Lithuania	464	519	55
Colombia	365	417	52
Slovenia	514	538	24

How have subgroups in the United States performed over time?

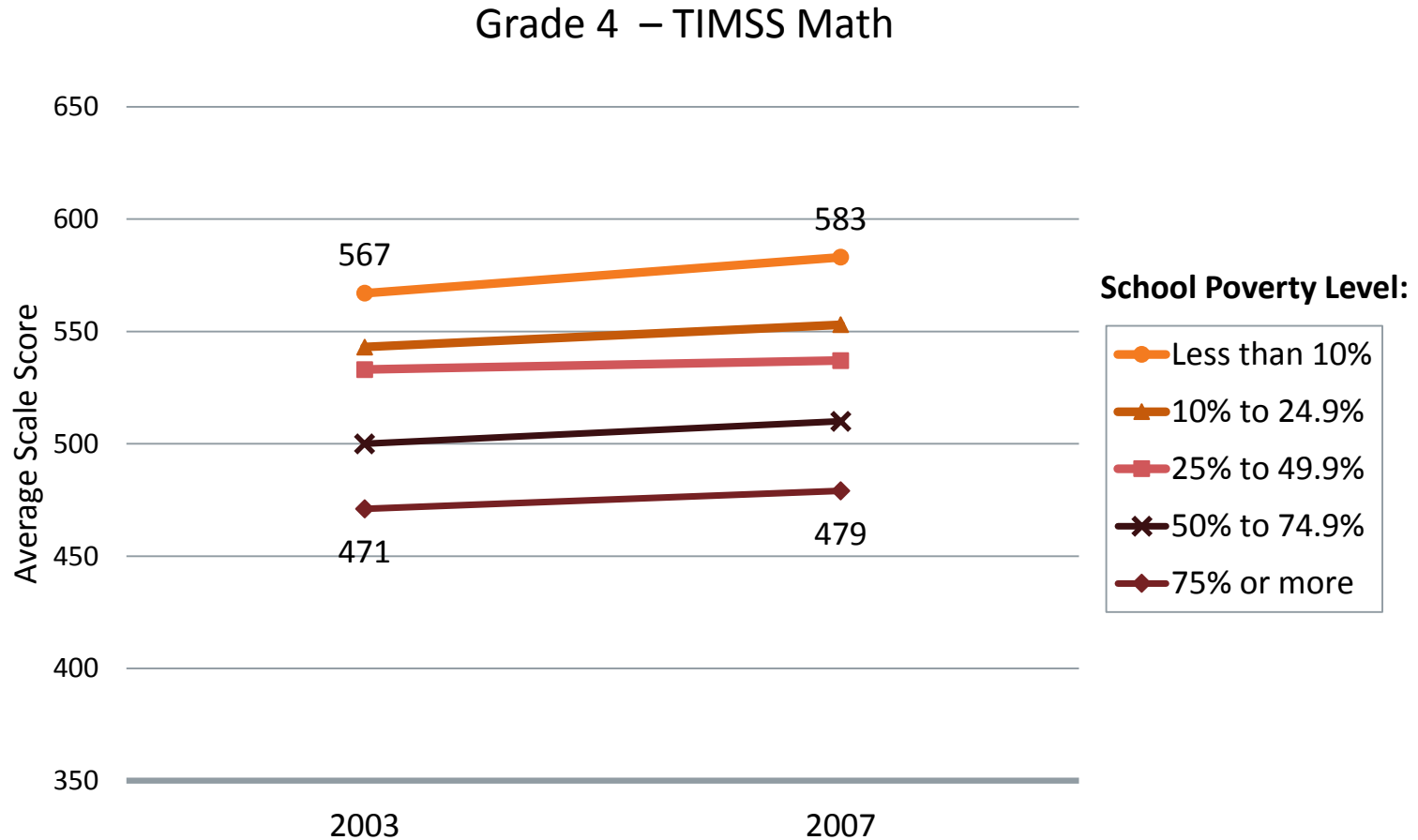
Some gap closing

Grade 4 – TIMSS Math



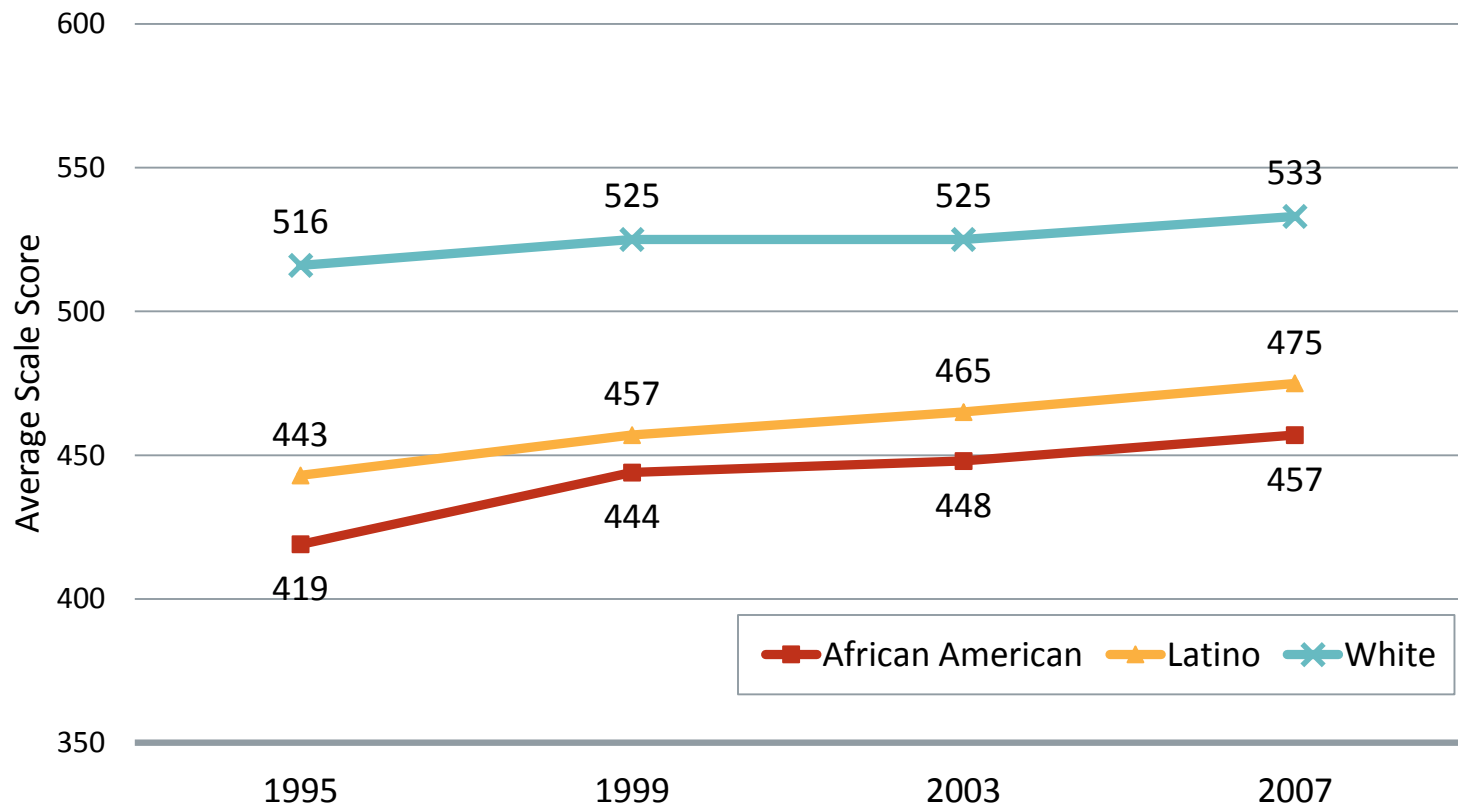
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

Big gaps by school poverty level



African-American and Latino students narrow gap

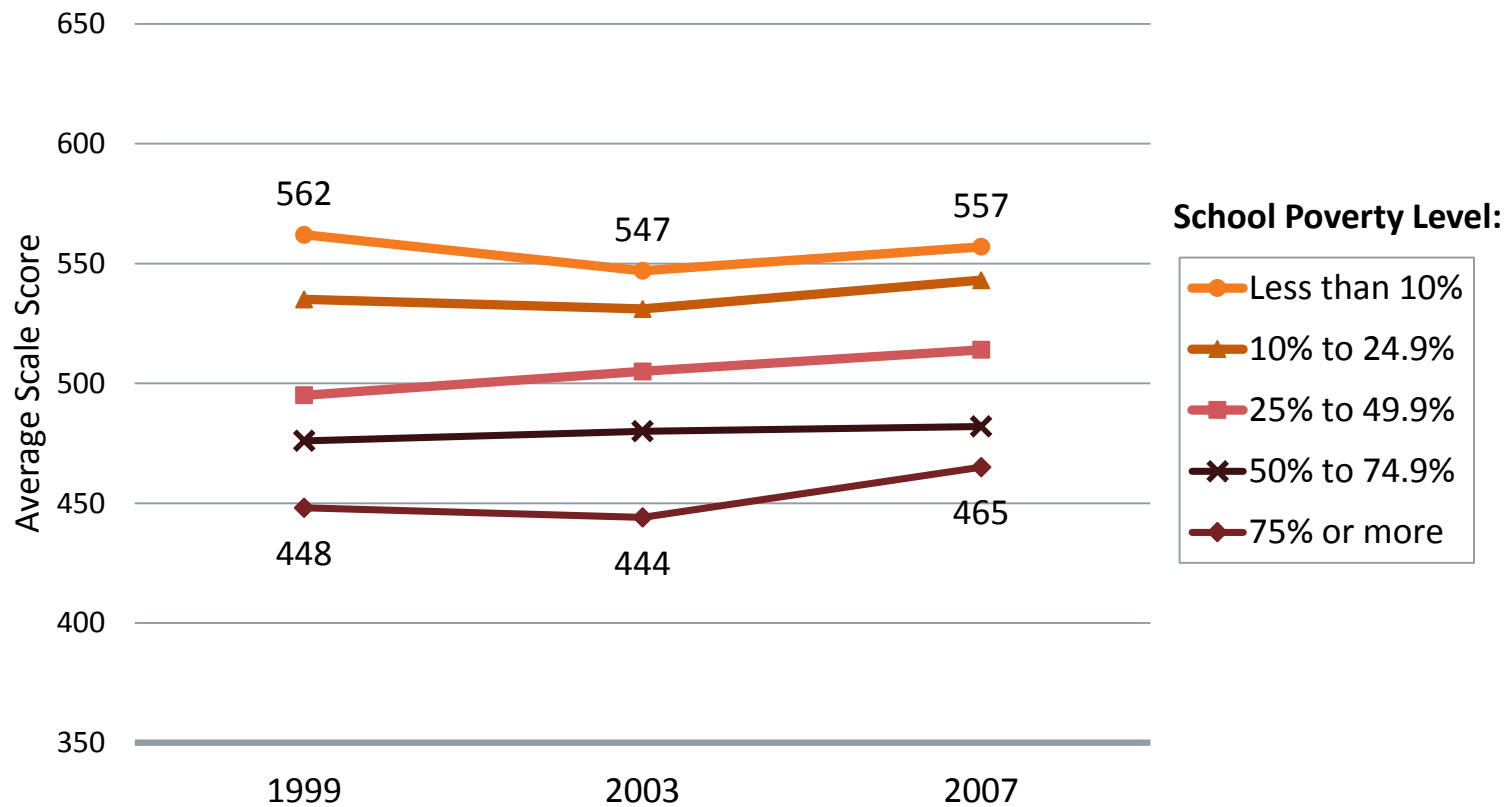
Grade 8 – TIMSS Math



Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

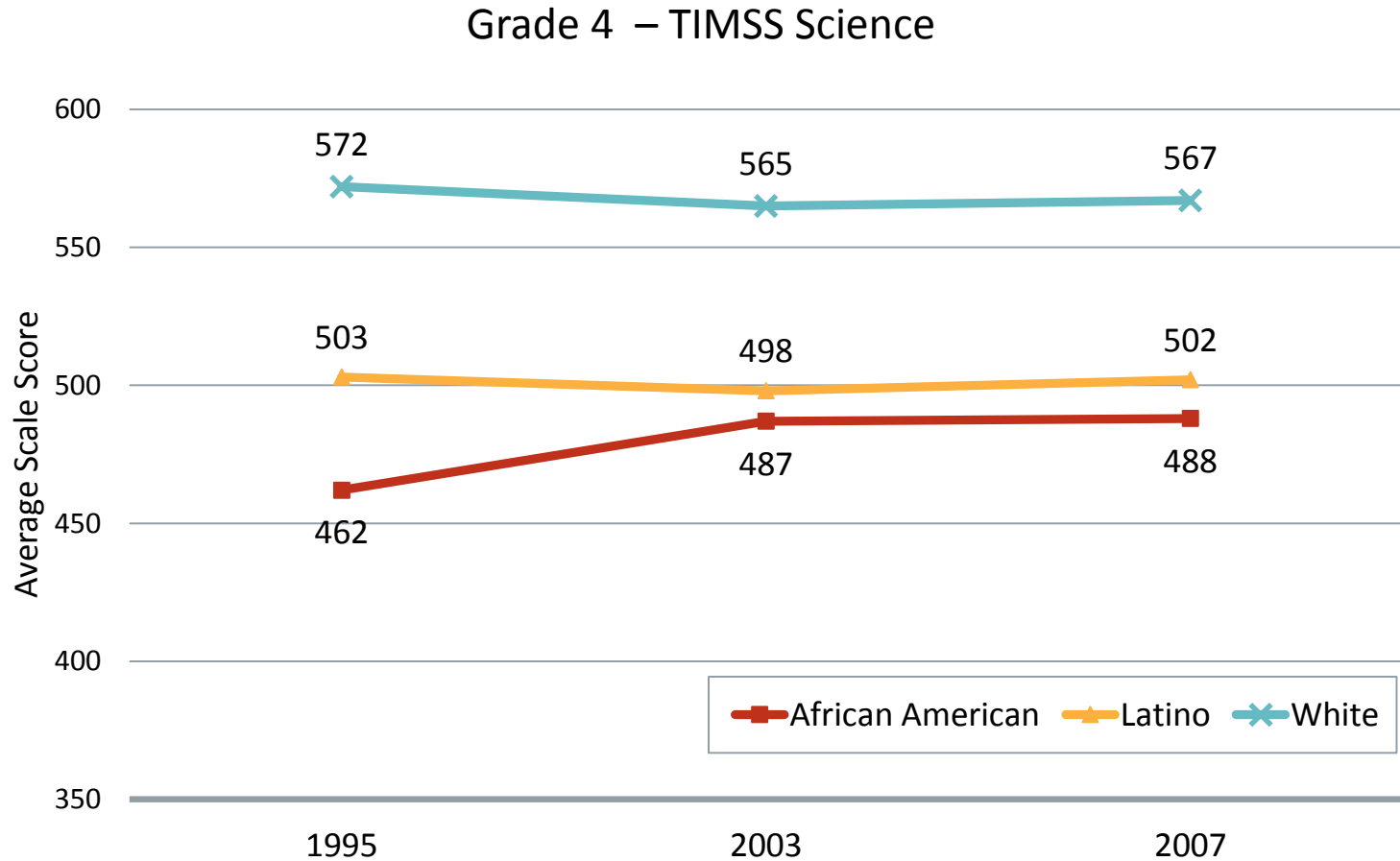
Big gaps by school poverty level

Grade 8 – TIMSS Math



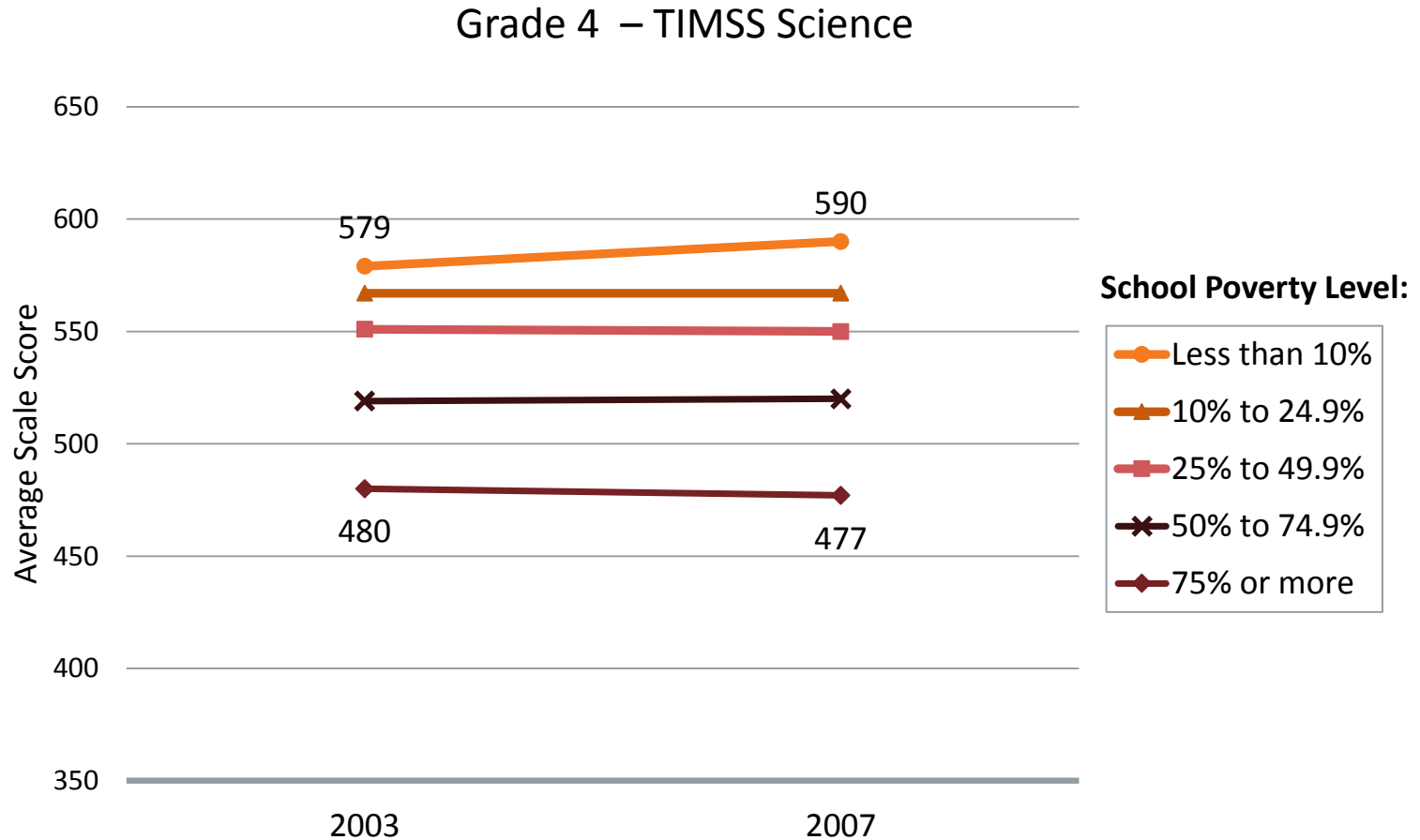
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

No consistent narrowing of gaps



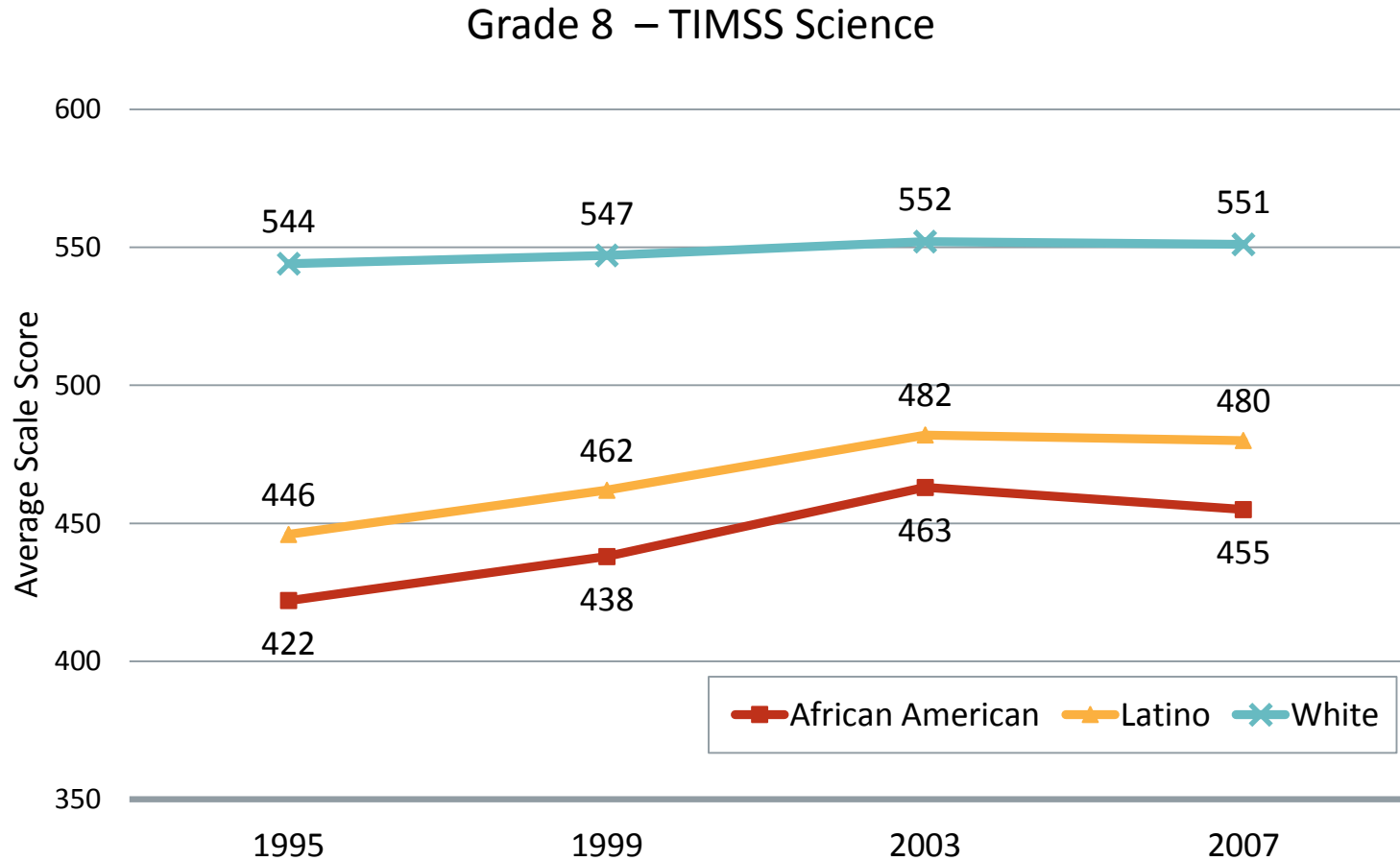
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

Big gaps by school poverty level



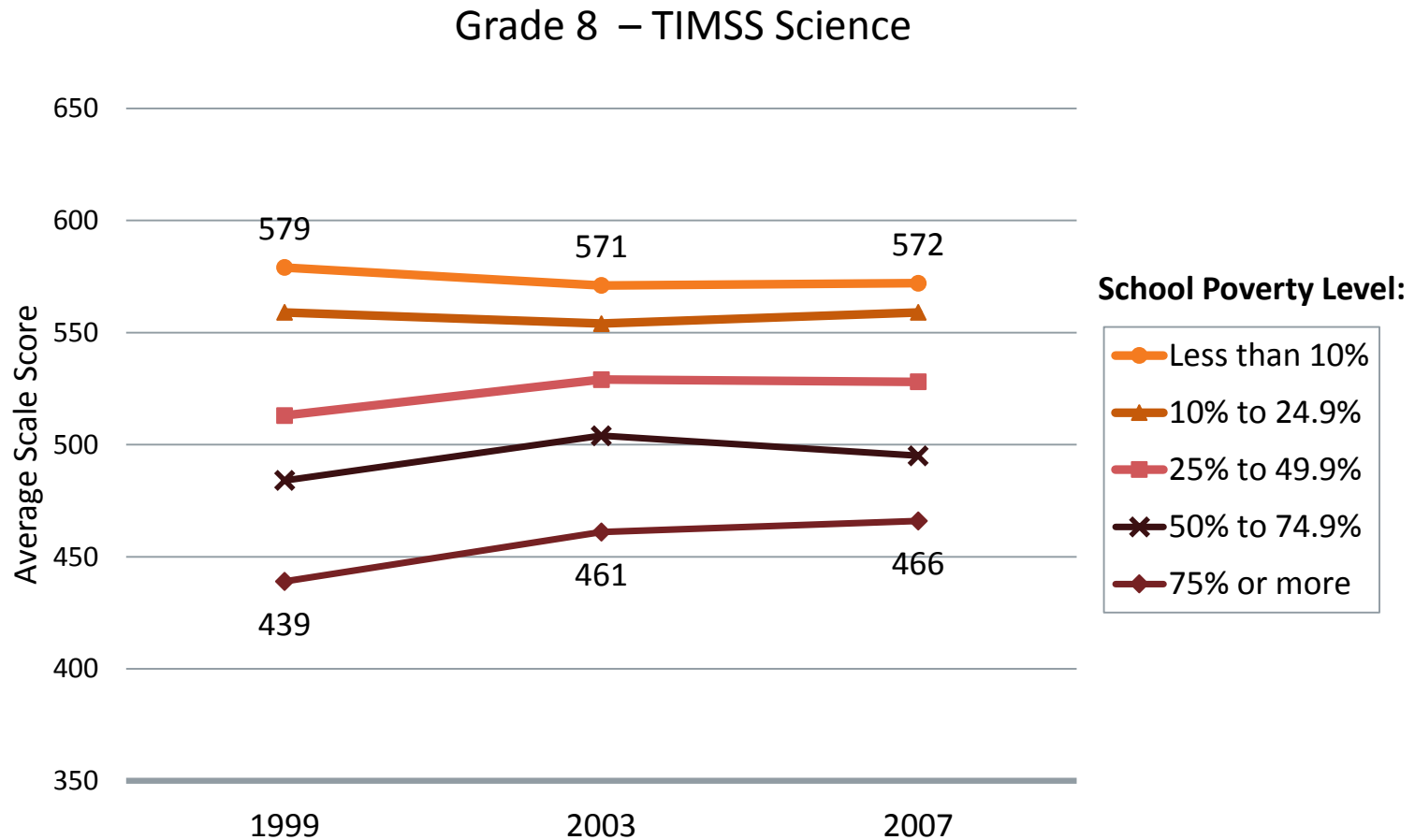
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

No consistent narrowing of gaps



Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

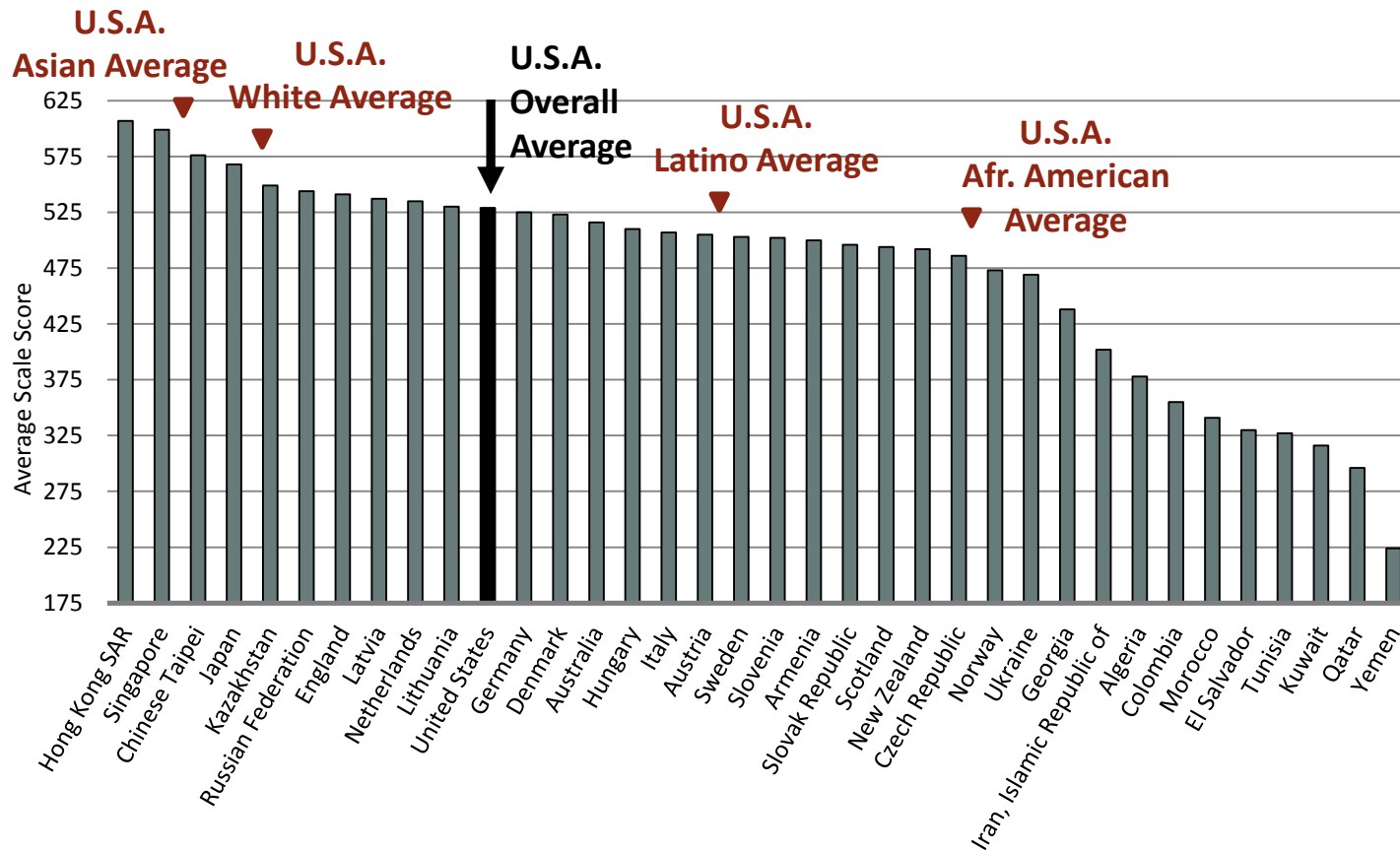
Big gaps by school poverty level



Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

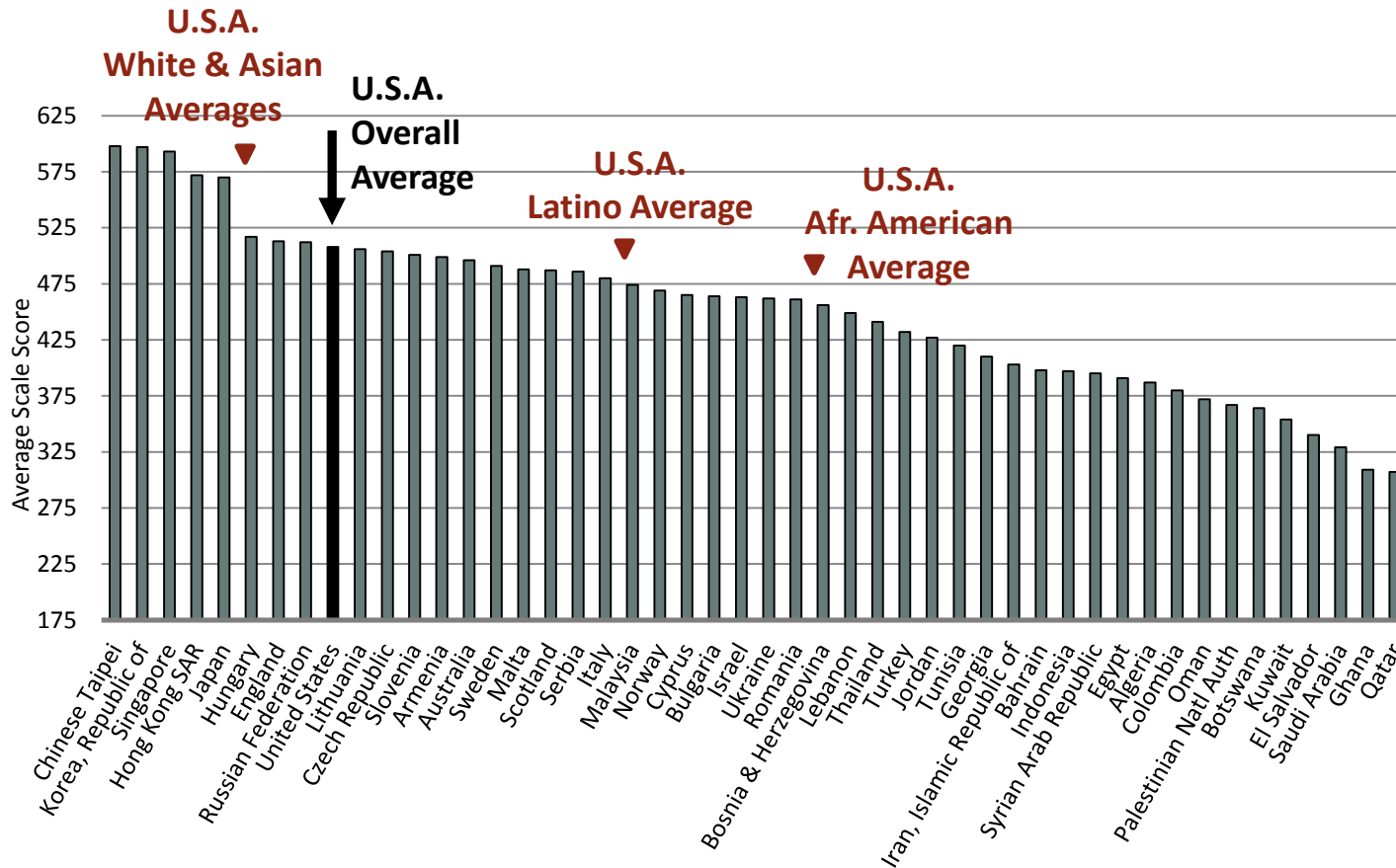
Across the performance of all participating countries, where does United States subgroup performance fall?

TIMSS 2007 Grade 4 Math



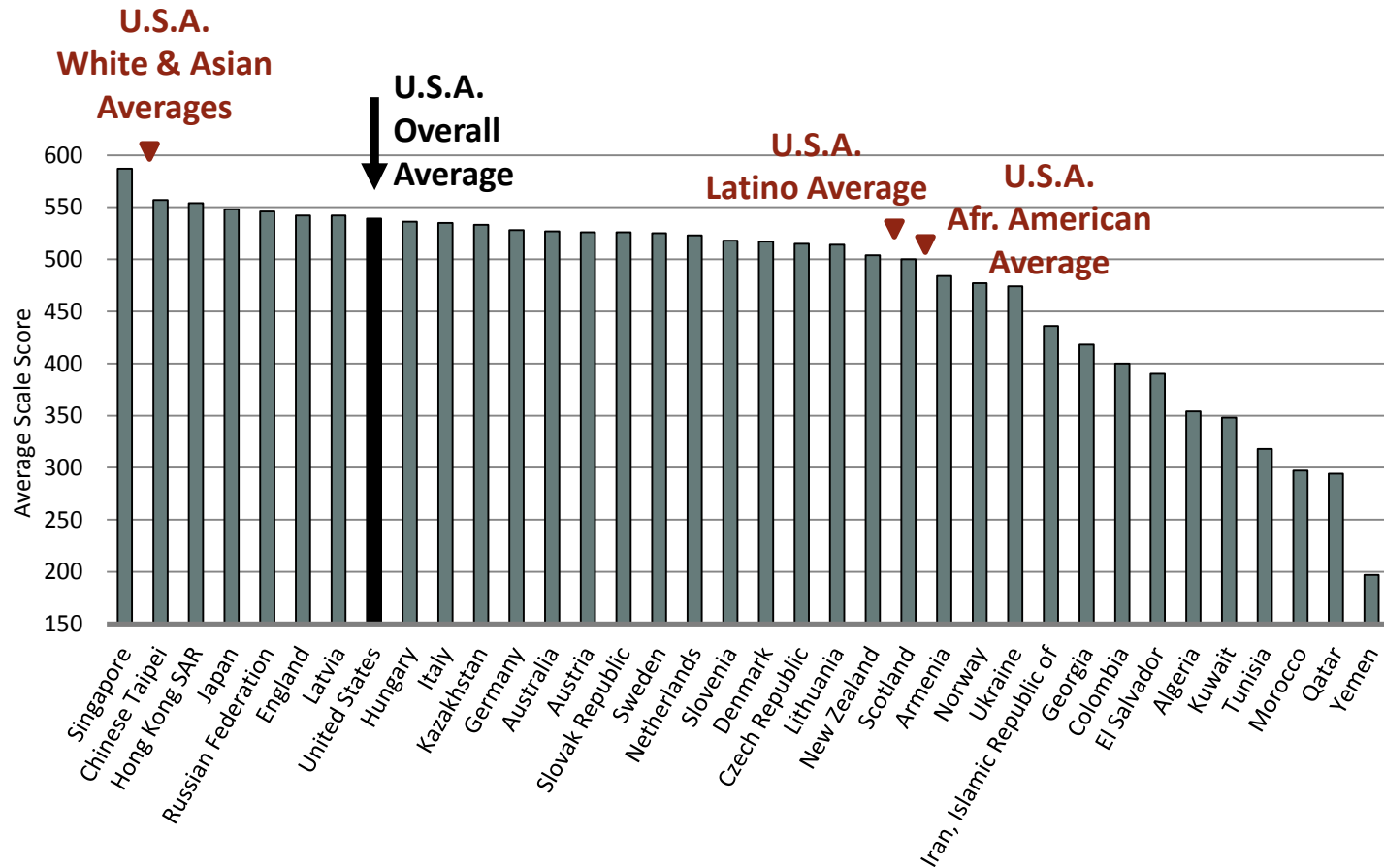
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 8 Math



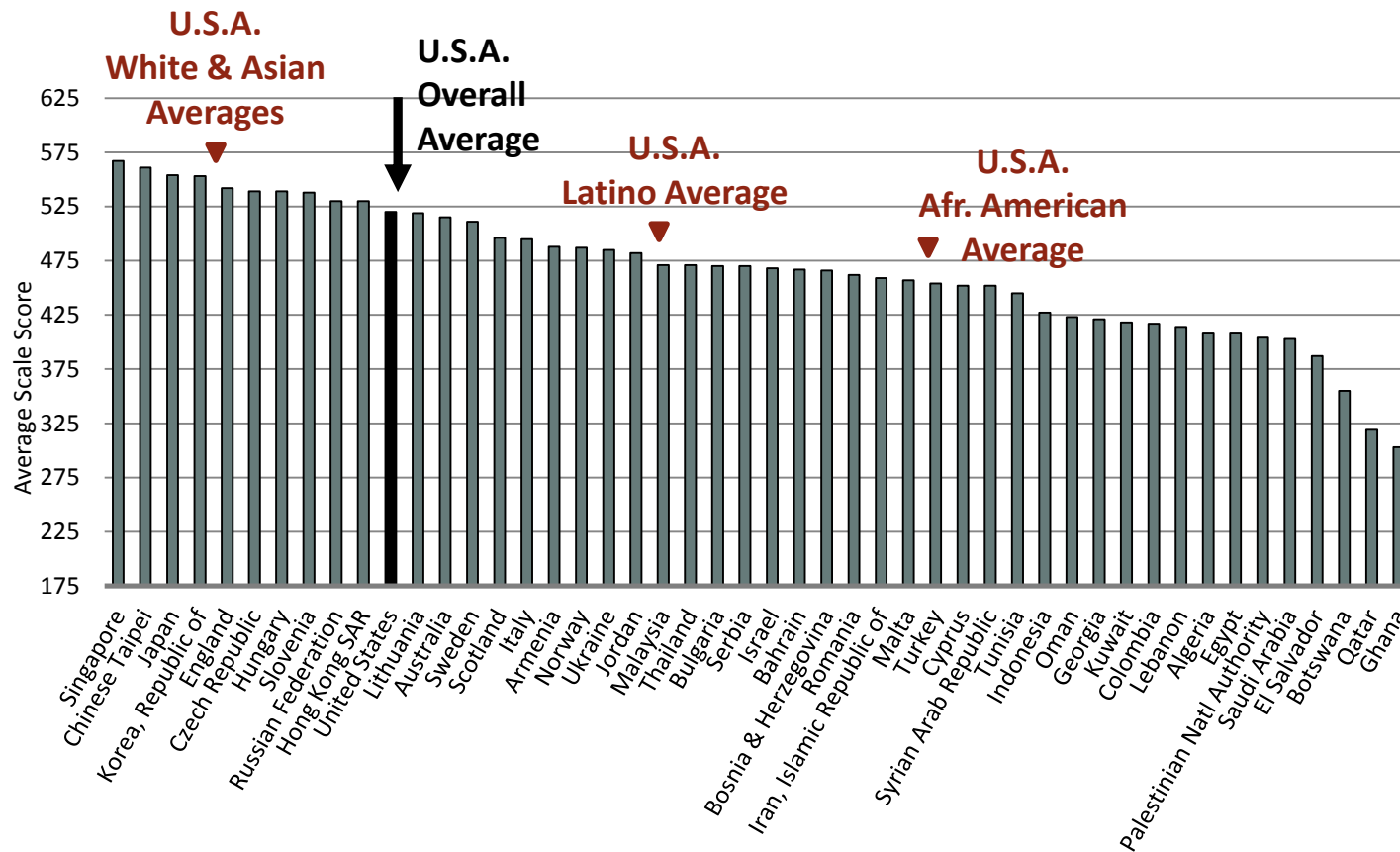
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 4 Science



Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 8 Science



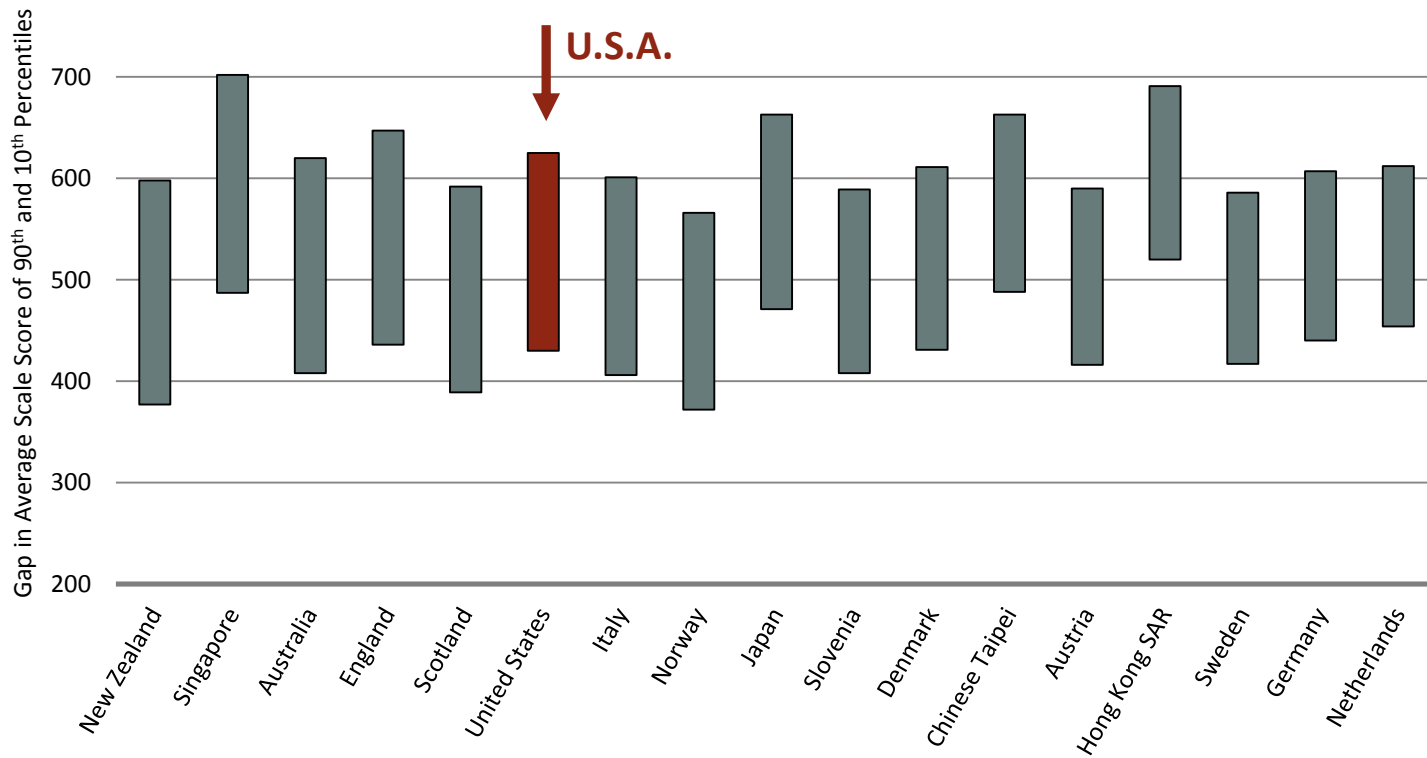
Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

How does the United States compare to its peer* countries in terms of the gap between students scoring at the 90th and 10th percentiles?

*Countries classified by the IMF as advanced economies

TIMSS 2007 Grade 4 Math

IMF Advanced Economies – Gap in Average Scale Scores of 90th and 10th Percentiles

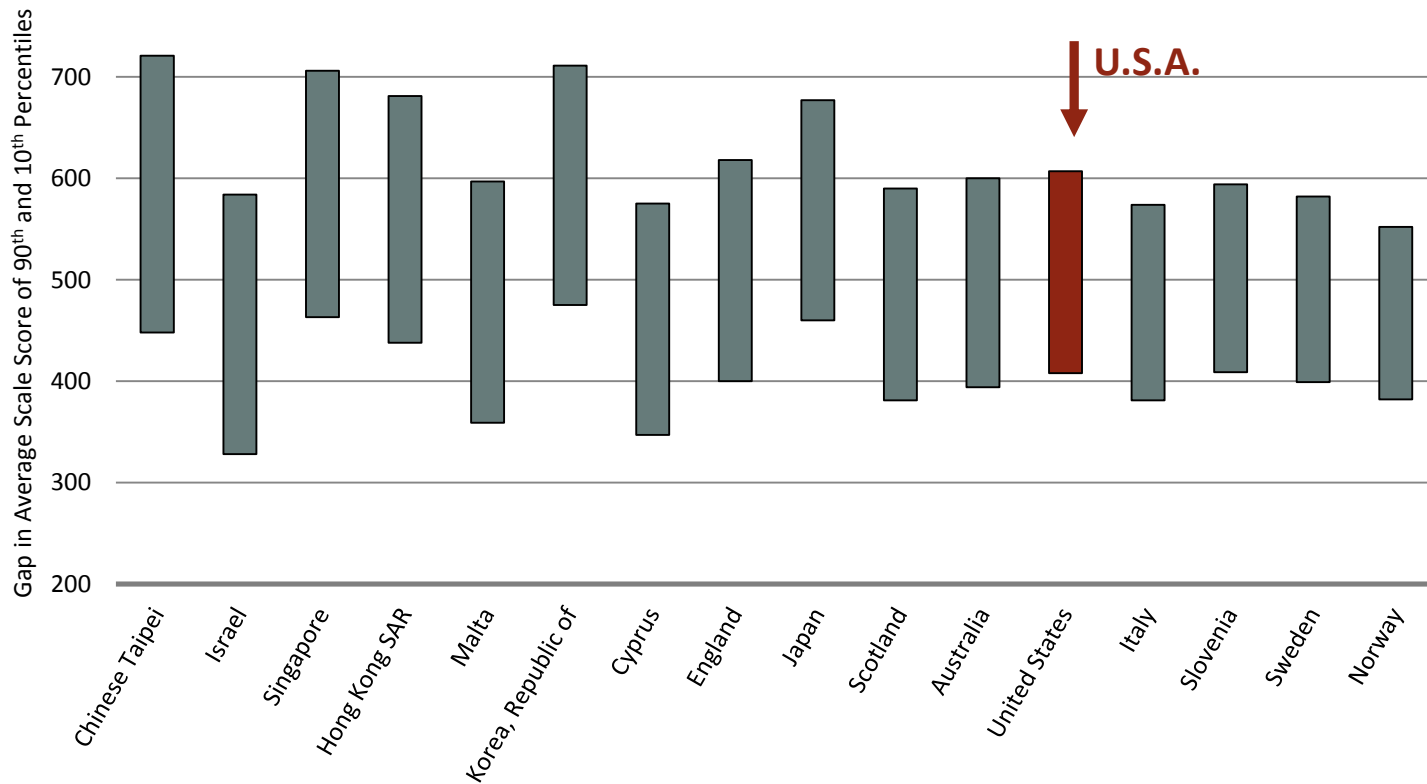


Note: Countries are sorted from largest gap to smallest gap, left to right

Source: *Highlights From the Trends in International Mathematics and Science Study (TIMSS) 2007*, NCES (2008)

TIMSS 2007 Grade 8 Math

IMF Advanced Economies – Gap in Average Scale Scores of 90th and 10th Percentiles

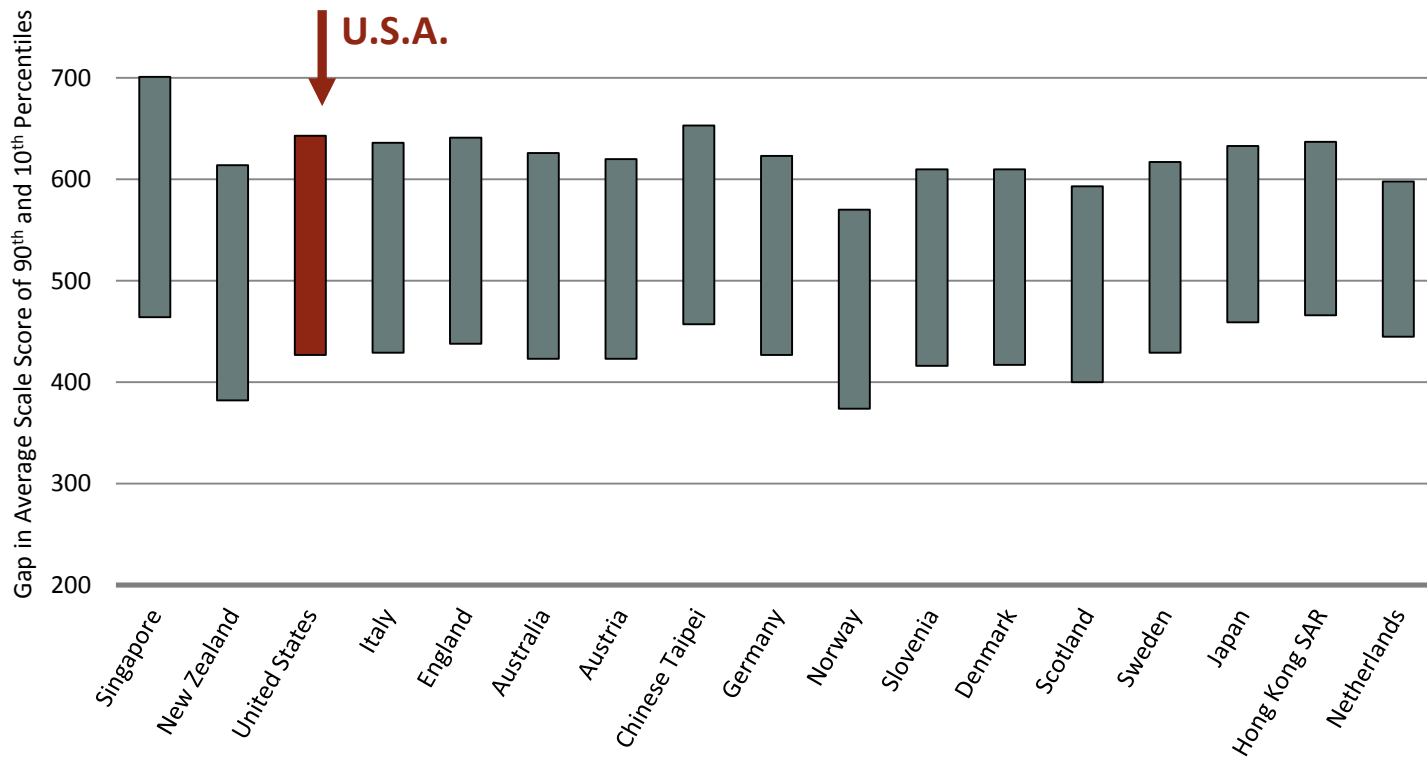


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TIMSS 2007 Grade 4 Science

IMF Advanced Economies – Gap in Average Scale Scores of 90th and 10th Percentiles

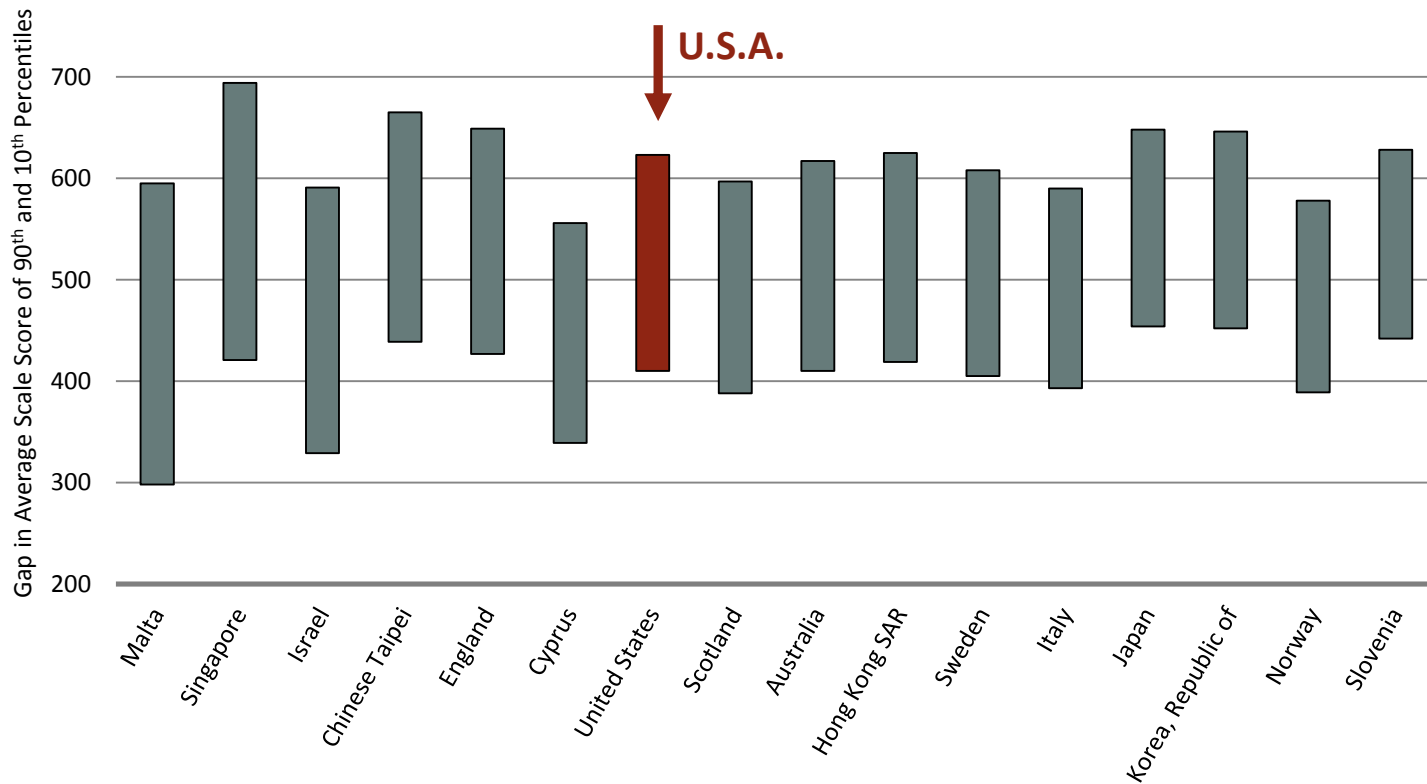


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TIMSS 2007 Grade 8 Science

IMF Advanced Economies – Gap in Average Scale Scores of 90th and 10th Percentiles



Note: Countries are sorted from largest gap to smallest gap, left to right

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