

## TIMSS 2011 results for Minnesota

### Science - Grade 8

- Public school students' average score was 553 at grade 8.
- Higher percentages of Minnesota 8th-graders performed at or above each of the four TIMSS international benchmarks than the international medians. For example, 16 percent of 8th-graders in Minnesota performed at or above the *Advanced* benchmark (625) compared to the international median of 4 percent at grade 8 (figure 12).
- In Minnesota, males outperformed females by 12 score points on average in science at grade 8 (figure 14). Male and female students scored higher, on average, in science than the TIMSS scale average (table 46).

**Table 45. Average science scores of 8th-grade students in Minnesota public schools compared with other participating education systems: 2011**

Grade 8	
<b>Education systems higher than Minnesota</b>	
Singapore	<i>Chinese Taipei-CHN</i>
<b>Education systems not measurably different from Minnesota</b>	
<i>Massachusetts-USA</i>	<i>Alberta-CAN</i>
Korea, Rep. of	Slovenia
Japan	Russian Federation
Finland	<i>Colorado-USA</i>
<b>Education systems lower than Minnesota</b>	
<i>Hong Kong-CHN</i>	Iran, Islamic Rep. of
<i>England-GBR</i>	Romania
<i>Indiana-USA</i>	United Arab Emirates
<i>Connecticut-USA</i>	Chile
<i>North Carolina-USA</i>	<i>Abu Dhabi-UAE</i>
<i>Florida-USA</i>	Bahrain
United States	Thailand
Hungary	Jordan
<i>Ontario-CAN</i>	Tunisia
<i>Quebec-CAN</i>	Armenia
Australia	Saudi Arabia
Israel	Malaysia
Lithuania	Syrian Arab Republic
New Zealand	<i>Palestinian Nat'l Auth.</i>
Sweden	Georgia
Italy	Oman
Ukraine	Qatar
<i>California-USA</i>	Macedonia, Rep. of
Norway	Lebanon
Kazakhstan	Indonesia
<i>Alabama-USA</i>	Morocco
<i>Dubai-UAE</i>	Ghana
Turkey	

NOTE: Italics indicate participants identified and counted in this report as an education system and not as a separate country.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011.

- White and multiracial students' average scores were higher than the TIMSS scale average while Black, Hispanic, and Asian students' average scores were not measurably different from the TIMSS scale average.
- Students in public schools with 75 percent or more of students eligible for free or reduced-price lunch had average scores lower than the TIMSS scale average. All other groups scored, on average, above the TIMSS scale average.

**Table 46. Average science scores in grade 8 for selected student groups in public schools in Minnesota: 2011**

Reporting groups	Science Grade 8
TIMSS scale average	500
U.S. average	525 *
Minnesota average	553 *
Sex	
Female	548 *
Male	559 *
Race/ethnicity	
White	570 *
Black	489
Hispanic	512
Asian	511
Multiracial	537 *
Percentage of public school students eligible for free or reduced-price lunch	
Less than 10 percent	578 *
10 to 24.9 percent	570 *
25 to 49.9 percent	547 *
50 to 74.9 percent	555 *
75 percent or more	458 *

\* $p < .05$ . Difference between score and TIMSS scale average is significant. NOTE: Black includes African American, Hispanic includes Latino, and Asian includes Pacific Islander and Native Hawaiian. Racial categories exclude Hispanic origin. Not all race/ethnicity categories are shown, but they are all included in the U.S. and state totals shown throughout the report. The standard errors of the estimates are shown in table E-41 available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2013009>.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011.