

## TIMSS 2011 results for Colorado

### Science - Grade 8

- Public school students' average score was 542 at grade 8.
- Higher percentages of Colorado 8th-graders performed at or above each of the four TIMSS international benchmarks than the international medians. For example, 14 percent of 8th-graders in Colorado performed at or above the *Advanced* benchmark (625) compared to the international median of 4 percent at grade 8 (figure 12).
- In Colorado males outperformed females by 11 score points, on average, in science (figure 14). Male and female students in Colorado scored higher, on average, in science than the TIMSS scale average (table 36).

**Table 35. Average science scores of 8th-grade students in Colorado public schools compared with other participating education systems: 2011**

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

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, Asian, and multiracial students' average scores were higher than the TIMSS scale average. Black and Hispanic students' average scores were not measurably different (table 36).
- Students in public schools with at least 10 percent but less than 50 percent of students eligible for free or reduced-price lunch scored higher, on average, than the TIMSS scale average. Average scores of students in public schools in other categories of eligibility for free or reduced-price lunch were not measurably different from the TIMSS scale average, including those in schools where less than 10 percent were eligible.

**Table 36. Average science scores in grade 8 for selected student groups in public schools in Colorado: 2011**

Reporting groups	Science Grade 8
<b>TIMSS scale average</b>	<b>500</b>
<b>U.S. average</b>	<b>525 *</b>
<b>Colorado average</b>	<b>542 *</b>
Sex	
Female	537 *
Male	548 *
Race/ethnicity	
White	572 *
Black	507
Hispanic	499
Asian	549 *
Multiracial	552 *
Percentage of public school students eligible for free or reduced-price lunch	
Less than 10 percent	534
10 to 24.9 percent	568 *
25 to 49.9 percent	560 *
50 to 74.9 percent	514
75 percent or more	486

\* $p < .05$ . 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-36 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.