TIMSS 2011 results for Indiana

Science – Grade 8

- Public school students' average score was 533 at grade 8.
- Higher percentages of Indiana 8th-graders performed at or above each of the four TIMSS international benchmarks than the international medians. For example, 10 percent of 8th-graders in Indiana performed at or above the *Advanced* benchmark (625) compared to the international median of 4 percent at grade 8 (figure 12).
- In Indiana, males outperformed females by 15 score points on average in science at grade 8 (figure 14). Male and female students in Indiana scored higher, on average, in science than the TIMSS scale average (table 42).
- White students' average scores were higher than the TIMSS scale average, while Black and Asian students scored lower, on average, than the TIMSS scale average. Hispanic and multiracial students' average scores were not measurably different from the TIMSS scale average.
- Students in public schools with at least 10 percent but less than 75 percent of students eligible for free or reduced-price lunch scored higher, on average, than the TIMSS scale average, while the average score of students in schools with 75 percent or more of students eligible for free or reduced-price lunch was not measurably different from the TIMSS scale average.

Table 41. Average science scores of 8th-grade students in Indiana public schools compared with other participating education systems: 2011

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

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.

Table 42. Average science scores in grade 8 for selected student groups in public schools in Indiana: 2011

Reporting groups	Science Grade 8
TIMSS scale average	**500**
U.S. average	**525 ***
Indiana average	**533 ***
Sex	
Female	526 *
Male	541 *
Race/ethnicity	
White	546 *
Black	460 *
Hispanic	499
Asian	492 *
Multiracial	534
Percentage of public school students eligible for free or reduced-price lunch	
Less than 10 percent	‡
10 to 24.9 percent	563 *
25 to 49.9 percent	540 *
50 to 74.9 percent	519 *
75 percent or more	476

‡ Reporting standards not met
*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-39 available at http://nces.ed.gov/pubsearch/pubsinfor.asp?pubid=2013009.
SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011.