

TIMSS 2011 results for Florida

Science - Grades 4 and 8

- Public school students' average science score was 545 at grade 4 and 530 at grade 8.
- Higher percentages of Florida 4th- and 8th-graders performed at or above each of the four TIMSS international benchmarks than the international medians. For example, 14 percent of 4th-graders and 13 percent of 8th-graders

in Florida performed at or above the *Advanced* benchmark (625) compared to the international median of 5 percent at grade 4 and 4 percent at grade 8 (figures 11 and 12).

- Males outperformed females by 9 score points on average in science at grade 4 (figure 13) and by 15 score points at grade 8 (figure 14). In both grade 4 and grade 8, male and female students in Florida scored higher, on average, in science than the TIMSS scale average (table 40).

Table 39. Average science scores of 4th- and 8th-grade students in Florida public schools compared with other participating education systems: 2011

Grade 4		Grade 8	
Education systems higher than Florida		Education systems higher than Florida	
Korea, Rep. of	Finland	Singapore	Japan
Singapore	Japan	<i>Massachusetts-USA</i>	<i>Minnesota-USA</i>
		<i>Chinese Taipei-CHN</i>	Finland
		Korea, Rep. of	<i>Alberta-CAN</i>
Education systems not measurably different from Florida		Education systems not measurably different from Florida	
Russian Federation	<i>North Carolina-USA</i>	Slovenia	<i>North Carolina-USA</i>
<i>Chinese Taipei-CHN</i>	Czech Republic	Russian Federation	United States
United States	<i>Hong Kong-CHN</i>	<i>Colorado-USA</i>	Hungary
<i>Alberta-CAN</i>		<i>Hong Kong-CHN</i>	<i>Ontario-CAN</i>
		<i>England-GBR</i>	<i>Quebec-CAN</i>
		<i>Indiana-USA</i>	Australia
		<i>Connecticut-USA</i>	Israel
Education systems lower than Florida		Education systems lower than Florida	
Hungary	New Zealand	Lithuania	Syrian Arab Republic
Sweden	Kazakhstan	New Zealand	<i>Palestinian Nat'l Auth.</i>
Slovak Republic	Norway	Sweden	Georgia
Austria	Chile	Italy	Oman
Netherlands	Thailand	Ukraine	Qatar
<i>England-GBR</i>	Turkey	<i>California-USA</i>	Macedonia, Rep. of
Denmark	<i>Dubai-UAE</i>	Norway	Lebanon
Germany	Georgia	Kazakhstan	Indonesia
<i>Ontario-CAN</i>	Iran, Islamic Rep. of	<i>Alabama-USA</i>	Morocco
Italy	Bahrain	<i>Dubai-UAE</i>	Ghana
Portugal	Malta	Turkey	
Slovenia	Azerbaijan	Iran, Islamic Rep. of	
<i>Northern Ireland-GBR</i>	Saudi Arabia	Romania	
<i>Quebec-CAN</i>	United Arab Emirates	United Arab Emirates	
Ireland	Armenia	Chile	
Croatia	<i>Abu Dhabi-UAE</i>	<i>Abu Dhabi-UAE</i>	
Australia	Qatar	Bahrain	
Serbia	Oman	Thailand	
Lithuania	Kuwait	Jordan	
<i>Belgium (Flemish)-BEL</i>	Tunisia	Tunisia	
Romania	Morocco	Armenia	
Spain	Yemen	Saudi Arabia	
Poland		Malaysia	

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.

- At grade 4 and grade 8, White, Hispanic, Asian, and multiracial students' average scores were higher than the TIMSS scale average, while Black students' average scores were not measurably different from the TIMSS scale average (table 40).
- Students at grade 4 scored higher, on average, than the TIMSS scale average regardless of the level of poverty within public schools. At grade 8, students in public schools with at least 10 percent but less than 75 percent of students eligible for free or reduced-price lunch scored, on average, higher than the TIMSS scale average, while the average score for students in public 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 40. Average science scores in grade 4 and 8 for selected student groups in public schools in Florida: 2011

Reporting groups	Science	
	Grade 4	Grade 8
TIMSS scale average	500	500
U.S. average	544 *	525 *
Florida average	545 *	530 *
Sex		
Female	540 *	522 *
Male	549 *	537 *
Race/ethnicity		
White	575 *	560 *
Black	504	485
Hispanic	531 *	523 *
Asian	593 *	600 *
Multiracial	577 *	524 *
Percentage of public school students eligible for free or reduced-price lunch		
Less than 10 percent	613 *	‡
10 to 24.9 percent	599 *	566 *
25 to 49.9 percent	556 *	550 *
50 to 74.9 percent	541 *	530 *
75 percent or more	517 *	498

‡ Reporting standards not met.

* $p < .05$. Difference between score and TIMSS scale average is significant.

NOTE: Black includes African American and Hispanic includes Latino. 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-38 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.