

2009 Science Assessment Content

Guided by a new framework, the NAEP science assessment was updated in 2009 to keep the content current with key developments in science, curriculum standards, assessments, and research. The 2009 framework organizes science content into three broad content areas.

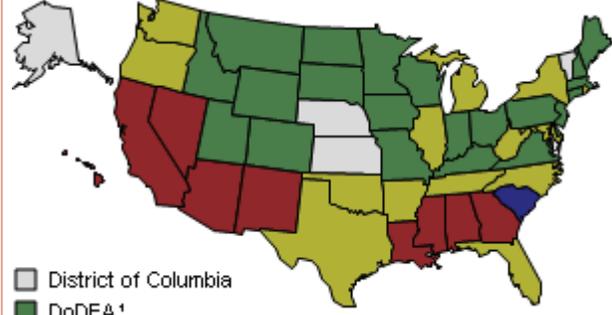
Physical science includes concepts related to properties and changes of matter, forms of energy, energy transfer and conservation, position and motion of objects, and forces affecting motion.

Life science includes concepts related to organization and development, matter and energy transformations, interdependence, heredity and reproduction, and evolution and diversity.

Earth and space sciences includes concepts related to objects in the universe, the history of the Earth, properties of Earth materials, tectonics, energy in Earth systems, climate and weather, and biogeochemical cycles.

The 2009 science assessment was composed of 143 questions at grade 4, 162 at grade 8, and 179 at grade 12. Students responded to only a portion of the questions, which included both multiple-choice questions and questions that required a written response.

Compare the Average Score in 2009 to Other States/Jurisdictions



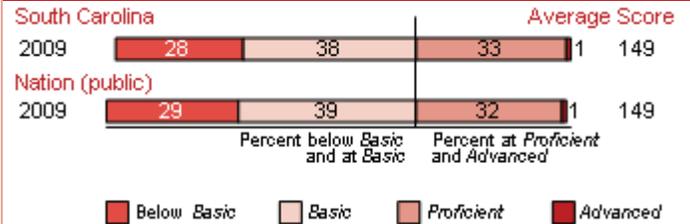
¹ Department of Defense Education Activity (overseas and domestic schools).
In 2009, the average score in **South Carolina** was

- lower than those in 23 states/jurisdictions
- higher than those in 9 states/jurisdictions
- not significantly different from those in 14 states/jurisdictions
- 5 states/jurisdictions did not participate

Overall Results

- In 2009, the average score of fourth-grade students in South Carolina was 149. This was not significantly different from the average score of 149 for public school students in the nation.
- The percentage of students in South Carolina who performed at or above the NAEP *Proficient* level was 33 percent in 2009. This percentage was not significantly different from the nation (32 percent).
- The percentage of students in South Carolina who performed at or above the NAEP *Basic* level was 72 percent in 2009. This percentage was not significantly different from the nation (71 percent).

Achievement-Level Percentages and Average Score Results



NOTE: Detail may not sum to totals because of rounding.

Results for Student Groups in 2009

Reporting Groups	Percent of students	Avg. score	Percentages at or above		Percent at Advanced
			Basic	Proficient	
Gender					
Male	51	150	72	34	1
Female	49	149	71	33	#
Race/Ethnicity					
White	55	163	87	49	1
Black	35	128	47	10	#
Hispanic	6	140	65	23	#
Asian/Pacific Islander	1	‡	‡	‡	‡
American Indian/Alaska Native	#	‡	‡	‡	‡
National School Lunch Program					
Eligible	56	137	59	19	#
Not eligible	44	165	88	52	1

Rounds to zero. ‡ Reporting standards not met.

NOTE: Detail may not sum to totals because of rounding, and because the "Information not available" category for the National School Lunch Program, which provides free/reduced-price lunches, and the "Unclassified" category for race/ethnicity are not displayed.

Score Gaps for Student Groups

- In 2009, male students in South Carolina had an average score that was not significantly different from female students.
- In 2009, Black students had an average score that was 35 points lower than White students. This performance gap was not significantly different from the nation (35 points).
- In 2009, Hispanic students had an average score that was 24 points lower than White students. This performance gap was not significantly different from the nation (32 points).
- In 2009, students who were eligible for free/reduced-price school lunch, an indicator of low family income, had an average score that was 29 points lower than students who were not eligible for free/reduced-price school lunch. This performance gap was not significantly different from the nation (29 points).