

The National Assessment of Educational Progress (NAEP) assesses science in two major dimensions: Fields of Science (Earth, Physical, and Life) and Knowing and Doing Science (Conceptual Understanding, Scientific Investigation, and Practical Reasoning). The NAEP science scale ranges from 0 to 300. Scales are created separately for each grade.

Overall Science Results for New Hampshire	Student Percentages at NAEP Achievement Levels
<ul style="list-style-type: none"> New Hampshire's average score (161) in 2005 was higher than that of the nation's public schools (149).¹ Of the 44 states and one jurisdiction that participated in the 2005 fourth-grade assessment, students' average scale score in New Hampshire was higher than those in 38 jurisdictions, and not significantly different from those in 6 jurisdictions.² The percentage of students in New Hampshire who performed at or above the NAEP <i>Proficient</i> level was 37 percent in 2005. This percentage was greater than that in the nation (27 percent). The percentage of students in New Hampshire who performed at or above the NAEP <i>Basic</i> level was 83 percent in 2005. This percentage was greater than that in the nation (66 percent). 	<p>New Hampshire (public) 2005: 17% Below Basic, 46% Basic, 35% Proficient, 2% Advanced</p> <p>Nation (public) 2005: 34%* Below Basic, 39%* Basic, 25%* Proficient, 2% Advanced</p> <p>Percent below <i>Basic</i> Percent at <i>Basic</i>, <i>Proficient</i>, and <i>Advanced</i></p> <p>■ Below <i>Basic</i> □ <i>Basic</i> ■ <i>Proficient</i> ■ <i>Advanced</i></p> <p>NOTE: The NAEP grade 4 science achievement levels correspond to the following scale points: Below <i>Basic</i>, 137 or lower; <i>Basic</i>, 138–169; <i>Proficient</i>, 170–204; <i>Advanced</i>, 205 or above.</p>

Performance of NAEP Reporting Groups in New Hampshire: 2005							
Reporting groups	Percent of students	Average score	Percent below <i>Basic</i>	Percent at or above <i>Basic</i>	Percent at or above <i>Proficient</i>	Percent <i>Advanced</i>	
Male	50	163↑	15↓	85↑	41↑	3	
Female	50	159↑	18↓	82↑	33↑	2	
White	93↑	162	16↓	84↑	38	2	
Black	2↓	‡	‡	‡	‡	‡	
Hispanic	3↓	142↑	41↓	59↑	12	#	
Asian/Pacific Islander	2↓	‡	‡	‡	‡	‡	
American Indian/Alaska Native	#↓	‡	‡	‡	‡	‡	
Eligible for free/reduced-price school lunch	21↓	149↑	32↓	68↑	21↑	1	
Not eligible for free/reduced-price school lunch	77↑	164↑	13↓	87↑	42	3	

Average Score Gaps Between Selected Groups	Science Scale Scores at Selected Percentiles															
<ul style="list-style-type: none"> In 2005, male students in New Hampshire had an average score that was higher than that of female students by 4 points. In the nation, the average score for male students was higher than that of female students by 4 points. Data are not reported for Black students in 2005, because reporting standards were not met. Therefore, the performance gap results are not reported. In 2005, Hispanic students had an average score that was lower than that of White students by 20 points. This performance gap was narrower than that of the nation (29 points). In 2005, students who were eligible for free/reduced-price school lunch, an indicator of poverty, had an average score that was lower than that of students who were not eligible for free/reduced-price school lunch by 16 points. This performance gap was narrower than that of the nation (27 points). In 2005, the score gap between students at the 75th percentile and students at the 25th percentile was 32 points. This performance gap was narrower than that of the nation (43 points). 	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Scale Score Distribution</th> </tr> <tr> <th>25th Percentile</th> <th>50th Percentile</th> <th>75th Percentile</th> </tr> </thead> <tbody> <tr> <td>New Hampshire</td> <td>146</td> <td>162</td> <td>178</td> </tr> <tr> <td>Nation (public)</td> <td>129*</td> <td>152*</td> <td>172*</td> </tr> </tbody> </table> <p>Scores at selected percentiles on the NAEP science scale indicate how well students at lower, middle, and higher levels performed. For example, the data above shows that 75 percent of students in public schools nationally scored below 172, while 75 percent of students in New Hampshire scored below 178.</p>		Scale Score Distribution			25 th Percentile	50 th Percentile	75 th Percentile	New Hampshire	146	162	178	Nation (public)	129*	152*	172*
	Scale Score Distribution															
	25 th Percentile	50 th Percentile	75 th Percentile													
New Hampshire	146	162	178													
Nation (public)	129*	152*	172*													

The estimate rounds to zero.

‡ Reporting standards not met.

* Significantly different from New Hampshire.

↑ Significantly higher than nation (public). ↓ Significantly lower than nation (public).

¹ Comparisons (higher/lower/not different) are based on statistical tests. The .05 level was used for testing statistical significance. Comparisons across jurisdictions and comparisons with the nation or within a jurisdiction across years may be affected by differences in exclusion rates for students with disabilities (SD) and English language learners (ELL). The exclusion rates for SD and ELL in New Hampshire were 2 percent and percentage rounds to zero in 2005, respectively. Statistical comparisons are calculated on the basis of unrounded scale scores or percentages.

² "Jurisdiction" refers to states and the Department of Defense Education Activity schools.

NOTE: Detail may not sum to totals because of rounding and because the "Information not available" category for free/reduced-price school lunch and the "Unclassified" category for race/ethnicity are not displayed. Visit <http://nces.ed.gov/nationsreportcard/states/> for additional results and detailed information.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005 Science Assessment.