

Mapping State Proficiency Standards Onto the NAEP Scales: Variation and Change in State Standards for Reading and Mathematics, 2005-2009

NEW JERSEY

Reading

How do New Jersey's reading standards for proficient performance at grades 4 and 8 in 2009 map onto the NAEP scale?

| | NAEP scale equivalent | NAEP achievement level |
|---------|-----------------------|------------------------|
| Grade 4 | 221 | Basic |
| Grade 8 | 244 | Basic |

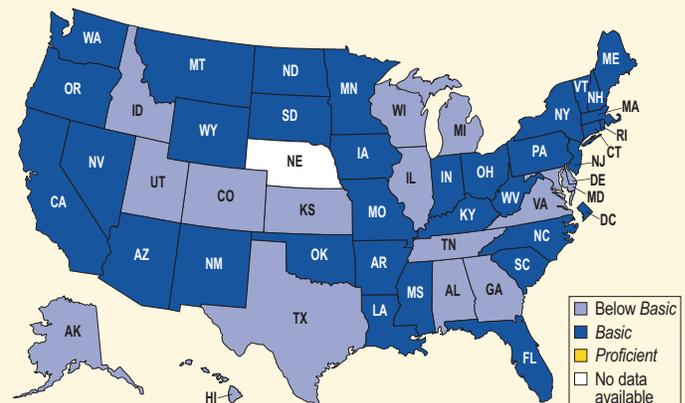
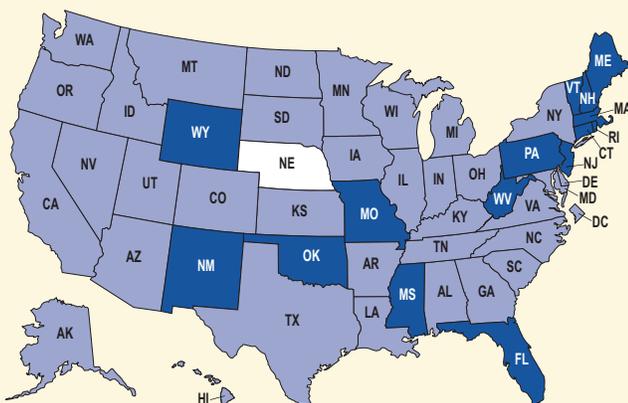
How do New Jersey's reading standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

| | 2005 NAEP scale equivalent | 2005 NAEP achievement level | 2007 NAEP scale equivalent | 2007 NAEP achievement level |
|---------|----------------------------|-----------------------------|----------------------------|-----------------------------|
| Grade 4 | 191 | below Basic | 201 | below Basic |
| Grade 8 | 250 | Basic | 252 | Basic |

How do New Jersey's reading standards for proficient performance at grades 4 and 8 in 2009 compare with those of other states when expressed in terms of NAEP achievement levels?

| | States below Basic | States at Basic | States at Proficient |
|---------|--------------------|-----------------|----------------------|
| Grade 4 | 35 | 15 | 0 |

| | States below Basic | States at Basic | States at Proficient |
|---------|--------------------|-----------------|----------------------|
| Grade 8 | 16 | 34 | 0 |



How do New Jersey's NAEP scale equivalent scores of reading standards for proficient performance at grades 4 and 8 in 2009 compare with those estimated for 2005 and 2007?

Changes from 2007

| | 2009 | 2007 | Change from 2007 | Comparable to 2007 |
|---------|------|------|------------------|--------------------|
| Grade 4 | 221 | 201 | 19.9 * | No |
| Grade 8 | 244 | 252 | -8.1 * | No |

Changes from 2005

| | 2009 | 2005 | Change from 2005 | Comparable to 2005 |
|---------|------|------|------------------|--------------------|
| Grade 4 | 221 | 191 | 30.5 * | No |
| Grade 8 | 244 | 250 | -6.3 * | No |

New Jersey made substantive changes to its reading assessments between 2007 and 2009; the NAEP scale equivalent of its grade 4 standards increased but the NAEP scale equivalent of its grade 8 standards decreased.

New Jersey made substantive changes to its reading assessments between 2005 and 2009; the NAEP scale equivalent of its grade 4 standards increased but the NAEP scale equivalent of its grade 8 standards decreased.

* Statistically different from zero ($p < .05$).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005, 2007, and 2009 Reading Assessments. U.S. Department of Education, Office of Planning, Evaluation and Policy Development, EDFacts SY 2008-09, Washington, DC, 2010. U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 and 2009 Surveys of State Assessment Program Characteristics. The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2010.

Reading

Do NAEP and the New Jersey reading assessments show the same changes in the proportion of students meeting the state proficiency standards from 2007 to 2009?

Because New Jersey made substantive changes to its reading assessments between 2007 and 2009, meaningful comparisons between measures of change in achievement cannot be made.

Changes to New Jersey's reading assessments between 2007 and 2009

| | No significant changes | Changed cut scores | Changed the period of administration | Changed assessment items | Used entirely different assessment | Realigned to new content standards | Changed proficiency standards | Changed accommodation policy | Changed re-test policy | Changed test contractors | Other changes |
|---------|------------------------|--------------------|--------------------------------------|--------------------------|------------------------------------|------------------------------------|-------------------------------|------------------------------|------------------------|--------------------------|---------------|
| Grade 4 | | Yes | Yes | Yes | Yes | | Yes | | | Yes | |
| Grade 8 | | Yes | Yes | Yes | Yes | | Yes | | | Yes | |

Composition of New Jersey's main reading test in 2008-09

| | Multiple choice | | Short constructed response | | Extended constructed response | | Performance tasks | | Other | |
|---------|-----------------|---------------------|----------------------------|---------------------|-------------------------------|---------------------|-------------------|---------------------|-----------------|---------------------|
| | Number of items | Proportion of score | Number of items | Proportion of score | Number of items | Proportion of score | Number of items | Proportion of score | Number of items | Proportion of score |
| Grade 4 | 27 | 69% | 0 | 0% | 3 | 31% | 0 | 0% | 0 | 0% |
| Grade 8 | 36 | 69% | 0 | 0% | 4 | 31% | 0 | 0% | 0 | 0% |

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005, 2007, and 2009 Reading Assessments. U.S. Department of Education, Office of Planning, Evaluation and Policy Development, EDFacts SY 2008-09, Washington, DC, 2010. U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 and 2009 Surveys of State Assessment Program Characteristics. The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2010.

Mathematics

How do New Jersey's mathematics standards for proficient performance at grades 4 and 8 in 2009 map onto the NAEP scale?

| | NAEP scale equivalent | NAEP achievement level |
|---------|-----------------------|------------------------|
| Grade 4 | 231 | Basic |
| Grade 8 | 272 | Basic |

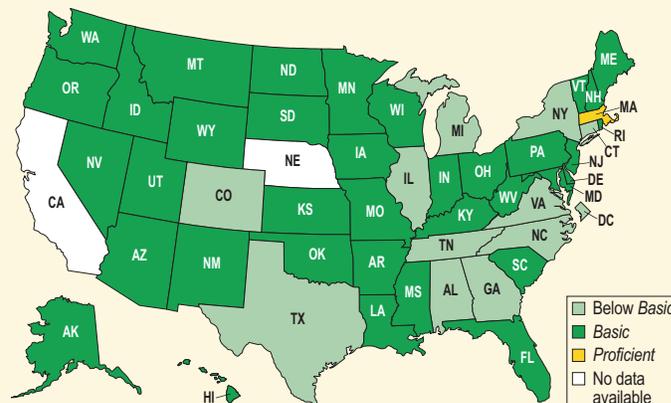
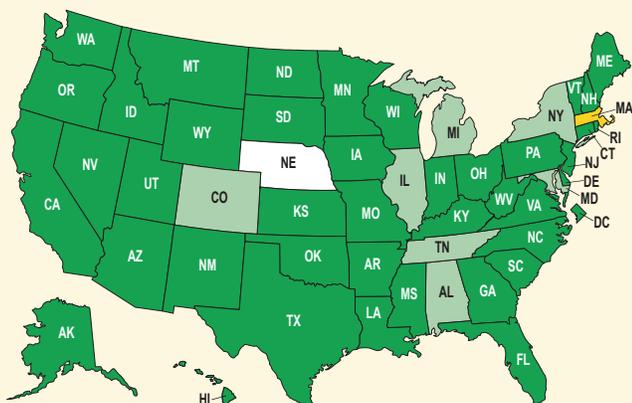
How do New Jersey's mathematics standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

| | 2005 NAEP scale equivalent | 2005 NAEP achievement level | 2007 NAEP scale equivalent | 2007 NAEP achievement level |
|---------|----------------------------|-----------------------------|----------------------------|-----------------------------|
| Grade 4 | 221 | Basic | 220 | Basic |
| Grade 8 | 273 | Basic | 272 | Basic |

How do New Jersey's mathematics standards for proficient performance at grades 4 and 8 in 2009 compare with those of other states when expressed in terms of NAEP achievement levels?

| | States below Basic | States at Basic | States at Proficient |
|---------|--------------------|-----------------|----------------------|
| Grade 4 | 7 | 42 | 1 |

| | States below Basic | States at Basic | States at Proficient |
|---------|--------------------|-----------------|----------------------|
| Grade 8 | 12 | 36 | 1 |



How do New Jersey's NAEP scale equivalent scores of mathematics standards for proficient performance at grades 4 and 8 in 2009 compare with those estimated for 2005 and 2007?

Changes from 2007

| | 2009 | 2007 | Change from 2007 | Comparable to 2007 |
|---------|------|------|------------------|--------------------|
| Grade 4 | 231 | 220 | 11.1 * | No |
| Grade 8 | 272 | 272 | -0.2 | No |

Changes from 2005

| | 2009 | 2005 | Change from 2005 | Comparable to 2005 |
|---------|------|------|------------------|--------------------|
| Grade 4 | 231 | 221 | 10.2 * | No |
| Grade 8 | 272 | 273 | -1.1 | No |

New Jersey made substantive changes to its mathematics assessments between 2007 and 2009; the NAEP scale equivalent of its grade 4 standards increased but the NAEP scale equivalent of its grade 8 standards did not change.

New Jersey made substantive changes to its mathematics assessments between 2005 and 2009; the NAEP scale equivalent of its grade 4 standards increased but the NAEP scale equivalent of its grade 8 standards did not change.

* Statistically different from zero ($p < .05$).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005, 2007, and 2009 Mathematics Assessments. U.S. Department of Education, Office of Planning, Evaluation and Policy Development, EDFacts SY 2008-09, Washington, DC, 2010. U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 and 2009 Surveys of State Assessment Program Characteristics. The National Longitudinal School-Level State Assessment Score Database (NLSASD) 2010.

Mathematics

Do NAEP and the New Jersey mathematics assessments show the same changes in the proportion of students meeting the state proficiency standards from 2007 to 2009?

Because New Jersey made substantive changes to its mathematics assessments between 2007 and 2009, meaningful comparisons between measures of change in achievement cannot be made.

Changes to New Jersey's mathematics assessments between 2007 and 2009

| | No significant changes | Changed cut scores | Changed the period of administration | Changed assessment items | Used entirely different assessment | Realigned to new content standards | Changed proficiency standards | Changed accommodation policy | Changed re-test policy | Changed test contractors | Other changes |
|----------------|------------------------|--------------------|--------------------------------------|--------------------------|------------------------------------|------------------------------------|-------------------------------|------------------------------|------------------------|--------------------------|---------------|
| Grade 4 | | Yes | Yes | Yes | Yes | | Yes | | | Yes | |
| Grade 8 | | Yes | Yes | Yes | Yes | | Yes | | | Yes | |

Composition of New Jersey's main mathematics test in 2008-09

| | Multiple choice | | Short constructed response | | Extended constructed response | | Performance tasks | | Other | |
|----------------|-----------------|---------------------|----------------------------|---------------------|-------------------------------|---------------------|-------------------|---------------------|-----------------|---------------------|
| | Number of items | Proportion of score | Number of items | Proportion of score | Number of items | Proportion of score | Number of items | Proportion of score | Number of items | Proportion of score |
| Grade 4 | 35 | 70% | 6 | 12% | 3 | 18% | 0 | 0% | 0 | 0% |
| Grade 8 | 35 | 67% | 8 | 16% | 3 | 17% | 0 | 0% | 0 | 0% |

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005, 2007, and 2009 Mathematics Assessments. U.S. Department of Education, Office of Planning, Evaluation and Policy Development, ED Facts SY 2008-09, Washington, DC, 2010. U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 and 2009 Surveys of State Assessment Program Characteristics. The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2010.

For additional information, refer to the report and documentation at <http://nces.ed.gov/nationsreportcard/studies/statemapping>.