

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

NEW YORK

Reading

How do New York'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	200	below <i>Basic</i>
Grade 8	247	<i>Basic</i>

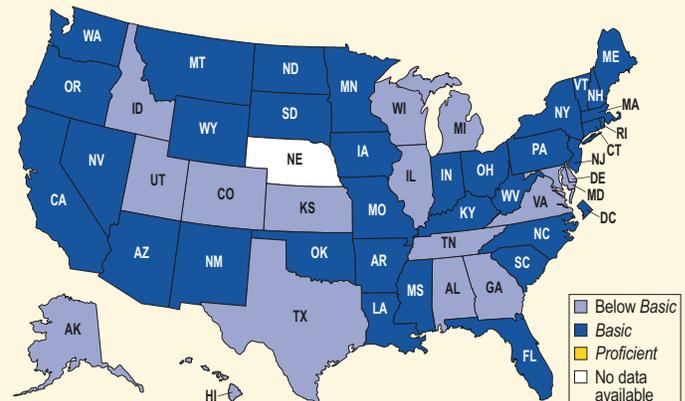
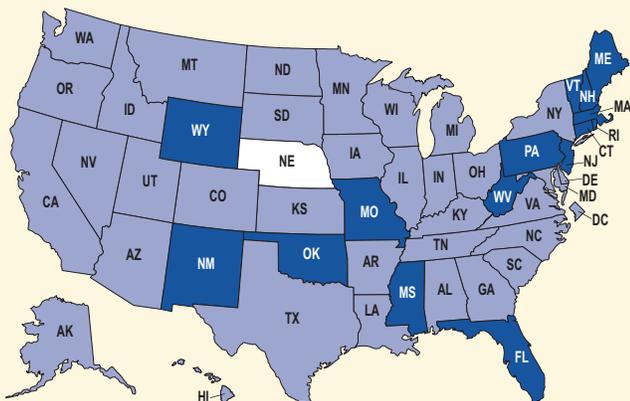
How do New York's reading standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

	2005 NAEP scale equivalent	2005 NAEP achievement level	2007 NAEP scale equivalent	2007 NAEP achievement level
Grade 4	207	<i>Basic</i>	209	<i>Basic</i>
Grade 8	268	<i>Basic</i>	260	<i>Basic</i>

How do New York'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 <i>Basic</i>	States at <i>Basic</i>	States at <i>Proficient</i>
Grade 4	35	15	0

	States below <i>Basic</i>	States at <i>Basic</i>	States at <i>Proficient</i>
Grade 8	16	34	0



How do New York'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	200	209	-9.2 *	Yes
Grade 8	247	260	-12.6 *	Yes

Changes from 2005

	2009	2005	Change from 2005	Comparable to 2005
Grade 4	200	207	-6.6 *	No
Grade 8	247	268	-20.5 *	No

Although no substantive changes in the reading assessments from 2007 to 2009 were indicated by the state, the NAEP scale equivalent of both its grade 4 and grade 8 standards decreased.

New York made substantive changes to its reading assessments between 2005 and 2009, and the NAEP scale equivalent of its standards at both grades decreased.

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

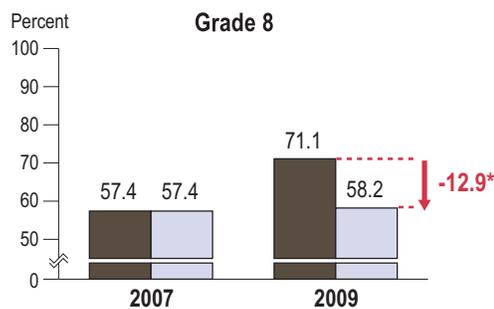
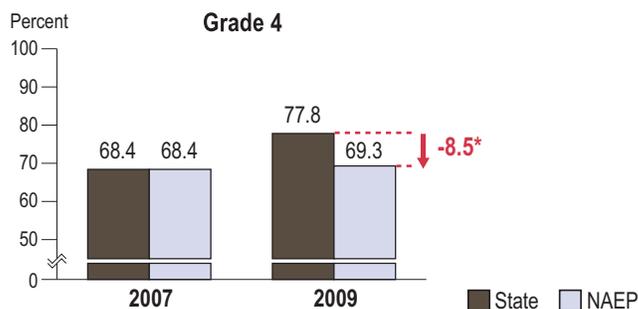
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005, 2007, and 2009 Reading Assessments. U.S. Department of Education, Office of Planning, Evaluation and Policy Development, EDFacts SY 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 York reading assessments show the same changes in the proportion of students meeting the state proficiency standards from 2007 to 2009?

In both grades, New York state assessment results showed more positive changes in achievement than NAEP results.

	State percent at the standard in 2007	State percent at the standard in 2009	Change from 2007 to 2009	NAEP percent at the 2007 standard in 2007	NAEP percent at the 2007 standard in 2009	Change from 2007 to 2009	Difference between NAEP and state measures of change
Grade 4	68.4	77.8	9.4	68.4	69.3	0.9	-8.5 *
Grade 8	57.4	71.1	13.7	57.4	58.2	0.8	-12.9 *



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

NOTE: Significance tests were performed only for the difference between NAEP and state measures of change.

Changes to New York'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										
Grade 8	Yes										

Composition of New York'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	28	65%	5	35%	2	†	0	0%	0	0%
Grade 8	26	59%	6	41%	2	†	0	0%	0	0%

† The seven constructed response questions of the grade 4 test comprise 35 percent of the test while the eight constructed response questions of the grade 8 test comprise 41 percent of the test.

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 York'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	207	below <i>Basic</i>
Grade 8	249	below <i>Basic</i>

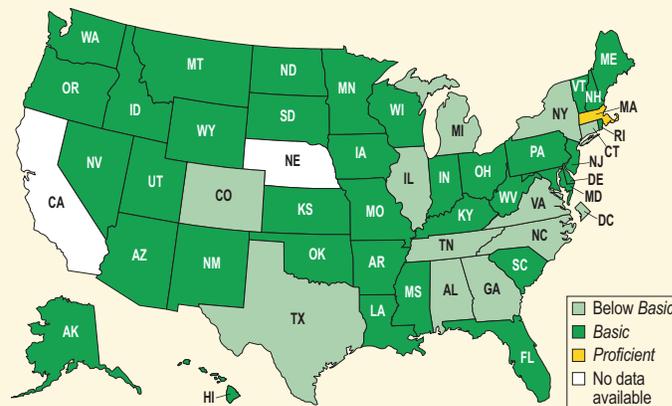
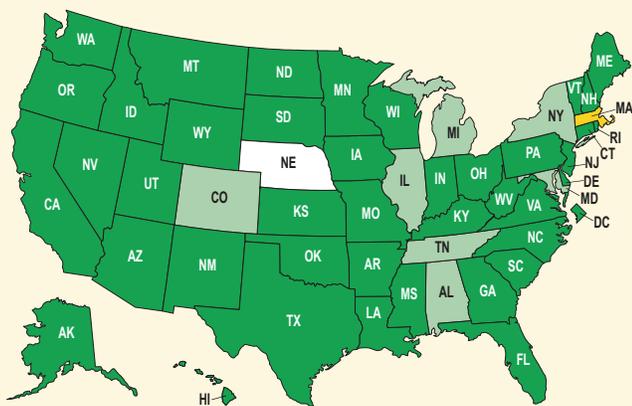
How do New York's mathematics standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

	2005 NAEP scale equivalent	2005 NAEP achievement level	2007 NAEP scale equivalent	2007 NAEP achievement level
Grade 4	207	below <i>Basic</i>	219	<i>Basic</i>
Grade 8	275	<i>Basic</i>	273	<i>Basic</i>

How do New York'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 <i>Basic</i>	States at <i>Basic</i>	States at <i>Proficient</i>
Grade 4	7	42	1

	States below <i>Basic</i>	States at <i>Basic</i>	States at <i>Proficient</i>
Grade 8	12	36	1



How do New York'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	207	219	-11.9 *	Yes
Grade 8	249	273	-23.5 *	Yes

Changes from 2005

	2009	2005	Change from 2005	Comparable to 2005
Grade 4	207	207	0.1	No
Grade 8	249	275	-26.0 *	No

Although no substantive changes in the mathematics assessments from 2007 to 2009 were indicated by the state, the NAEP scale equivalent of both its grade 4 and grade 8 standards decreased.

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

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

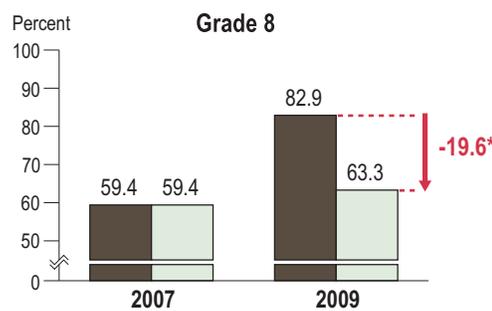
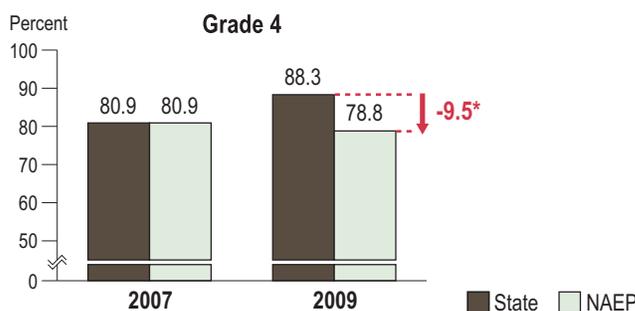
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005, 2007, and 2009 Mathematics Assessments. U.S. Department of Education, Office of Planning, Evaluation and Policy Development, EDFacts 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 (NLSLSASD) 2010.

Mathematics

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

In both grades, New York state assessment results showed more positive changes in achievement than NAEP results.

	State percent at the standard in 2007	State percent at the standard in 2009	Change from 2007 to 2009	NAEP percent at the 2007 standard in 2007	NAEP percent at the 2007 standard in 2009	Change from 2007 to 2009	Difference between NAEP and state measures of change
Grade 4	80.9	88.3	7.4	80.9	78.8	-2.1	-9.5 *
Grade 8	59.4	82.9	23.5	59.4	63.3	3.9	-19.6 *



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

NOTE: Significance tests were performed only for the difference between NAEP and state measures of change.

Changes to New York'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										
Grade 8	Yes										

Composition of New York'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	25	43%	4	40%	2	17%	0	0%	0	0%
Grade 8	27	39%	24	35%	18	26%	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, 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.

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