

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

ILLINOIS

Reading

How do Illinois'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	198	below <i>Basic</i>
Grade 8	234	below <i>Basic</i>

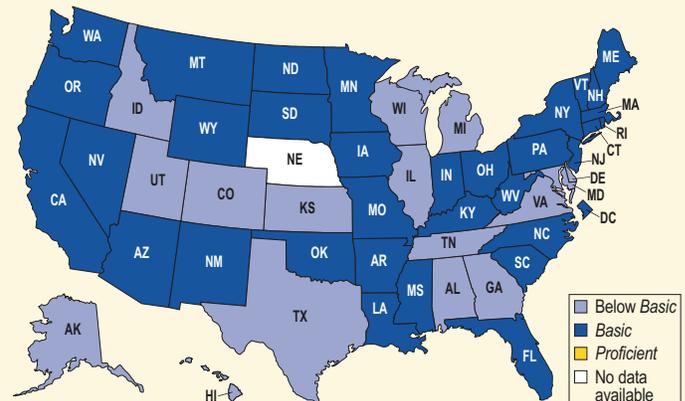
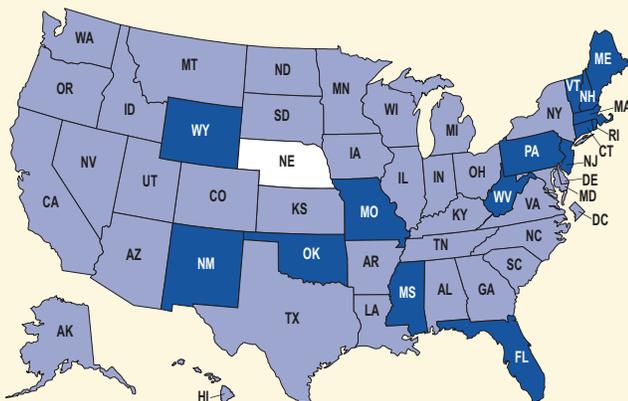
How do Illinois's reading standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

	2005 NAEP scale equivalent	2005 NAEP achievement level	2007 NAEP scale equivalent	2007 NAEP achievement level
Grade 4	–	–	200	below <i>Basic</i>
Grade 8	245	<i>Basic</i>	236	below <i>Basic</i>

How do Illinois'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 Illinois'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	198	200	-1.5	No
Grade 8	234	236	-1.9	No

Changes from 2005

	2009	2005	Change from 2005	Comparable to 2005
Grade 4	198	–	–	No
Grade 8	234	245	-11.4 *	No

Illinois made substantive changes to its reading assessments between 2007 and 2009, but the NAEP scale equivalent of its standards at both grades did not change.

Illinois made substantive changes to its reading grade 8 assessment between 2005 and 2009, and the NAEP scale equivalent of its grade 8 standards decreased.

– State assessment data not available; * 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 Illinois reading assessments show the same changes in the proportion of students meeting the state proficiency standards from 2007 to 2009?

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

Changes to Illinois'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
Grade 8								Yes			Yes

Composition of Illinois'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	50	90%	0	0%	1	10%	0	0%	0	0%
Grade 8	50	90%	0	0%	1	10%	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 Illinois'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	251	below <i>Basic</i>

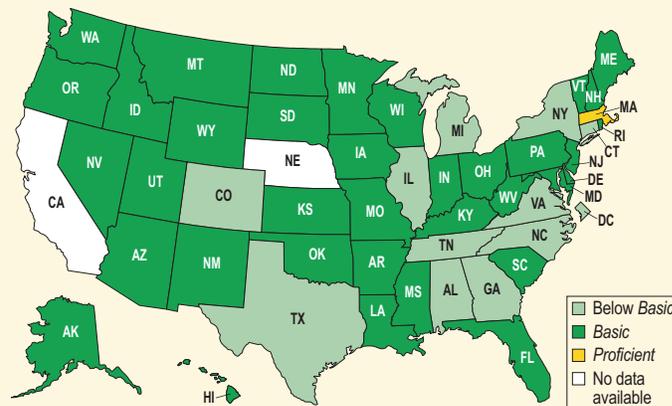
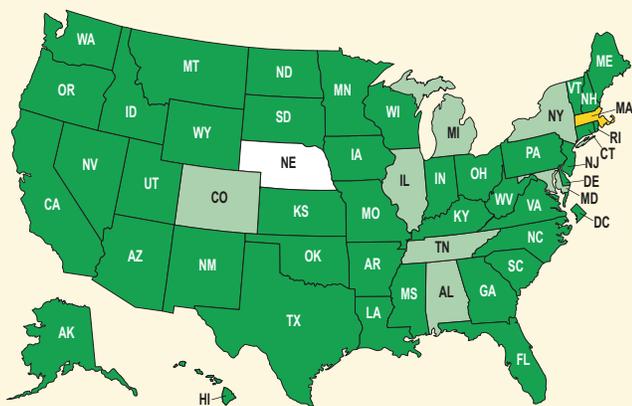
How do Illinois's mathematics standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

	2005 NAEP scale equivalent	2005 NAEP achievement level	2007 NAEP scale equivalent	2007 NAEP achievement level
Grade 4	–	–	208	below <i>Basic</i>
Grade 8	276	<i>Basic</i>	251	below <i>Basic</i>

How do Illinois'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 Illinois'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	208	-0.8	No
Grade 8	251	251	0.4	No

Changes from 2005

	2009	2005	Change from 2005	Comparable to 2005
Grade 4	207	–	–	No
Grade 8	251	276	-24.8 *	No

Illinois made substantive changes to its mathematics assessments between 2007 and 2009, but the NAEP scale equivalent of its standards at both grades did not change.

Illinois made substantive changes to its mathematics grade 8 assessment between 2005 and 2009, and the NAEP scale equivalent of its grade 8 standards decreased.

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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 Illinois mathematics assessments show the same changes in the proportion of students meeting the state proficiency standards from 2007 to 2009?

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

Changes to Illinois'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
Grade 8	Yes							Yes			Yes

Composition of Illinois'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	65	85%	2	5%	1	10%	0	0%	0	0%
Grade 8	65	85%	2	5%	1	10%	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 (NLSASD) 2010.

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