

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

## MISSISSIPPI

### Reading

How do Mississippi'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	210	Basic
Grade 8	254	Basic

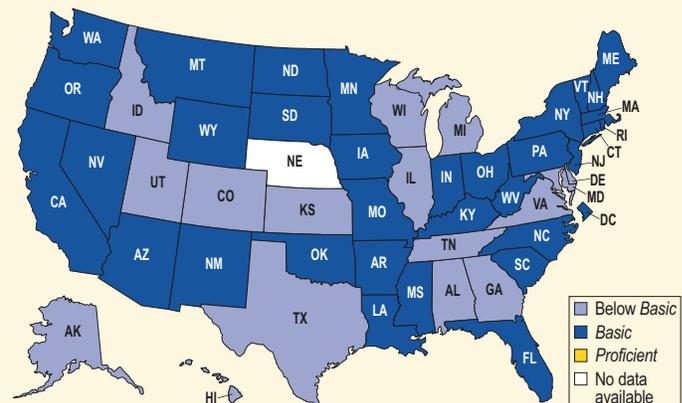
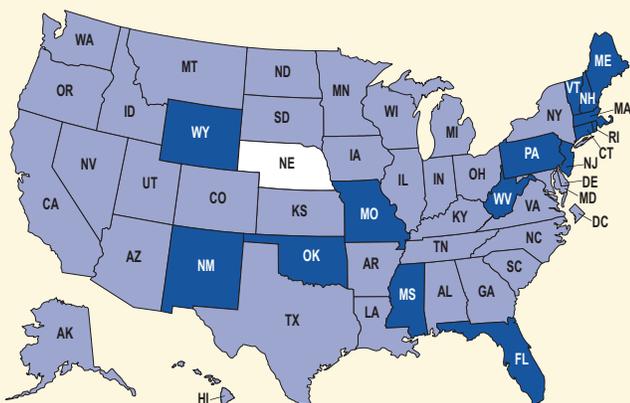
How do Mississippi's reading standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

	2005 NAEP scale equivalent	2005 NAEP achievement level	2007 NAEP scale equivalent	2007 NAEP achievement level
Grade 4	161	below Basic	163	below Basic
Grade 8	246	Basic	251	Basic

How do Mississippi'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 Mississippi'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	210	163	46.5 *	No
Grade 8	254	251	3.4 *	No

#### Changes from 2005

	2009	2005	Change from 2005	Comparable to 2005
Grade 4	210	161	49.0 *	No
Grade 8	254	246	7.9 *	No

Mississippi made substantive changes to its reading assessments between 2007 and 2009, and the NAEP scale equivalent of its standards at both grades increased.

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

\* 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 (NLSASD) 2010.

## Reading

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

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

### Changes to Mississippi'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			Yes
Grade 8		Yes		Yes	Yes	Yes	Yes	Yes			Yes

### Composition of Mississippi'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	100%	0	0%	0	0%	0	0%	0	0%
Grade 8	70	100%	0	0%	0	0%	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 Mississippi'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	223	Basic
Grade 8	264	Basic

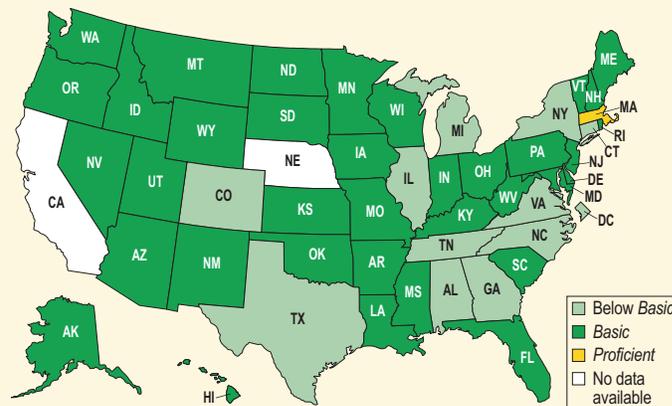
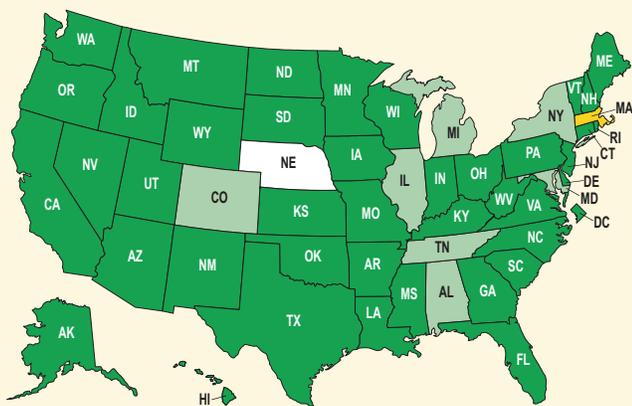
How do Mississippi's mathematics standards for proficient performance at grades 4 and 8 in 2005 and 2007 map onto the NAEP scale?

	2005 NAEP scale equivalent	2005 NAEP achievement level	2007 NAEP scale equivalent	2007 NAEP achievement level
Grade 4	206	below Basic	204	below Basic
Grade 8	262	Basic	262	Basic

How do Mississippi'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 Mississippi'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	223	204	18.5*	No
Grade 8	264	262	1.5	No

### Changes from 2005

	2009	2005	Change from 2005	Comparable to 2005
Grade 4	223	206	16.9*	No
Grade 8	264	262	2.0	No

Mississippi 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.

Mississippi 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.

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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 (NLSASD) 2010.

## Mathematics

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

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

### Changes to Mississippi'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 Mississippi'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	45	100%	0	0%	0	0%	0	0%	0	0%
Grade 8	50	100%	0	0%	0	0%	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>.