

FEATURES OF THE 2009 MATHEMATICS ASSESSMENT

Nationally representative
student samples

- 168,800 4th-graders
- 161,700 8th-graders

Trend comparisons to seven
previous mathematics
assessments

Results available for

- Nation
- 50 states
- District of Columbia
- Department of Defense
school system



The 
Nation's
Report Card

Mathematics 2009

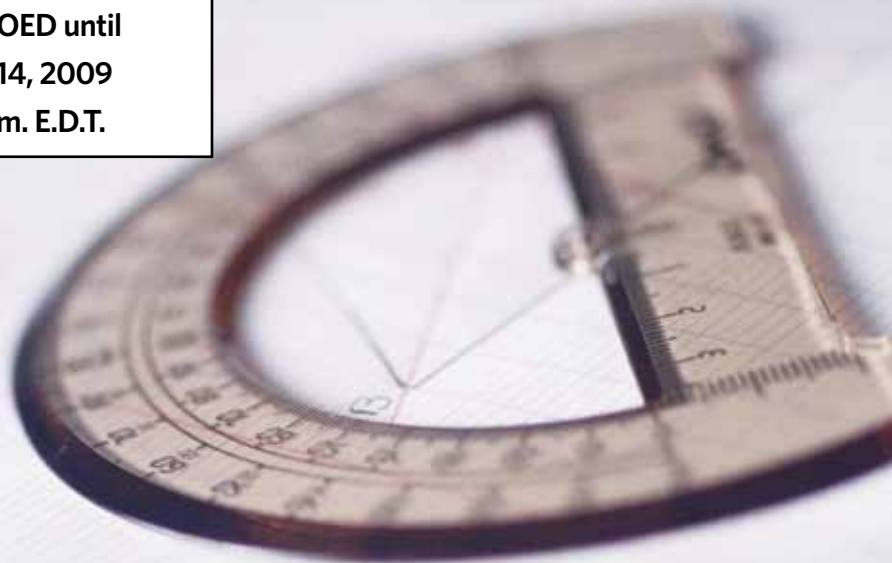
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS AT GRADES 4 AND 8

Highlights

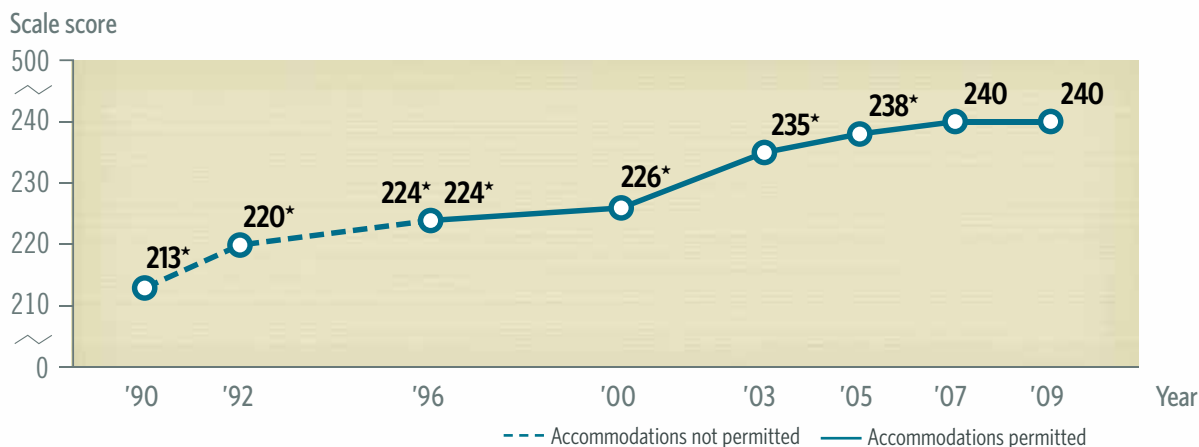
ies INSTITUTE OF
EDUCATION SCIENCES
Institute of Education Sciences

U.S. Department of Education

EMBARGOED until
October 14, 2009
10:00 a.m. E.D.T.

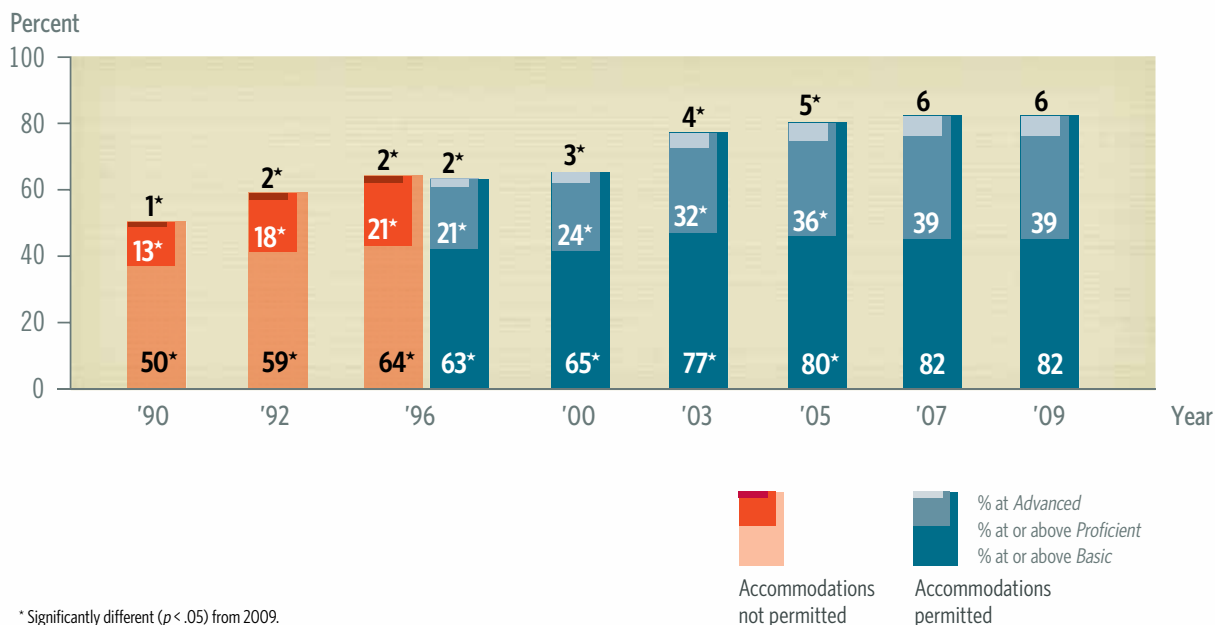


Fourth-grade mathematics score unchanged from 2007



* Significantly different ($p < .05$) from 2009.

Achievement-level results flat since 2007



* Significantly different ($p < .05$) from 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2009 Mathematics Assessments.

No significant change in performance of racial/ethnic groups since 2007

	CHANGE IN AVERAGE SCORES	
	Since 1990	Since 2007
Overall	▲	◆
White	▲	◆
Black	▲	◆
Hispanic	▲	◆
Asian/Pacific Islander	▲	◆
American Indian/ Alaska Native	‡	◆

- ▲ Indicates the score was higher in 2009.
- ◆ Indicates no significant change in the score in 2009.
- ‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

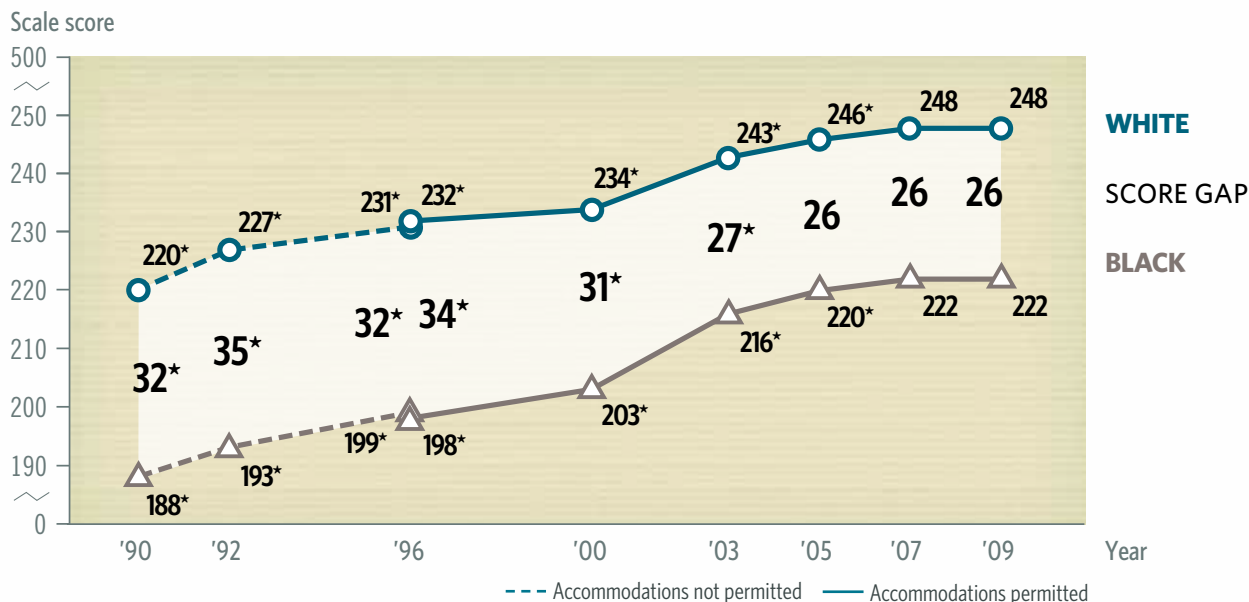
Since 1990

- **White** students up 28 points
- **Black** students up 35 points
- **Hispanic** students up 27 points
- **Asian/Pacific Islander** students up 30 points

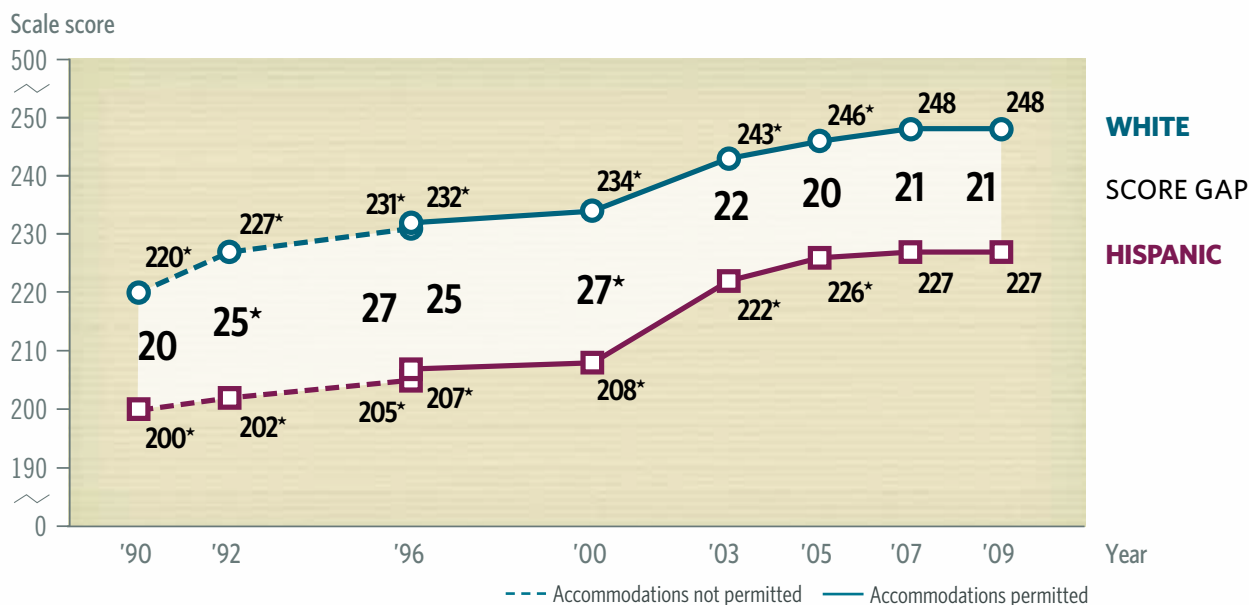


NOTE: Black includes African American, Hispanic includes Latino, and Pacific Islander includes Native Hawaiian. Race categories exclude Hispanic origin.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1990, 2007, and 2009 Mathematics Assessments.

White – Black score gap smaller than in 1990 but shows no change since 2007



No significant change in White – Hispanic gap compared to 2007 or 1990

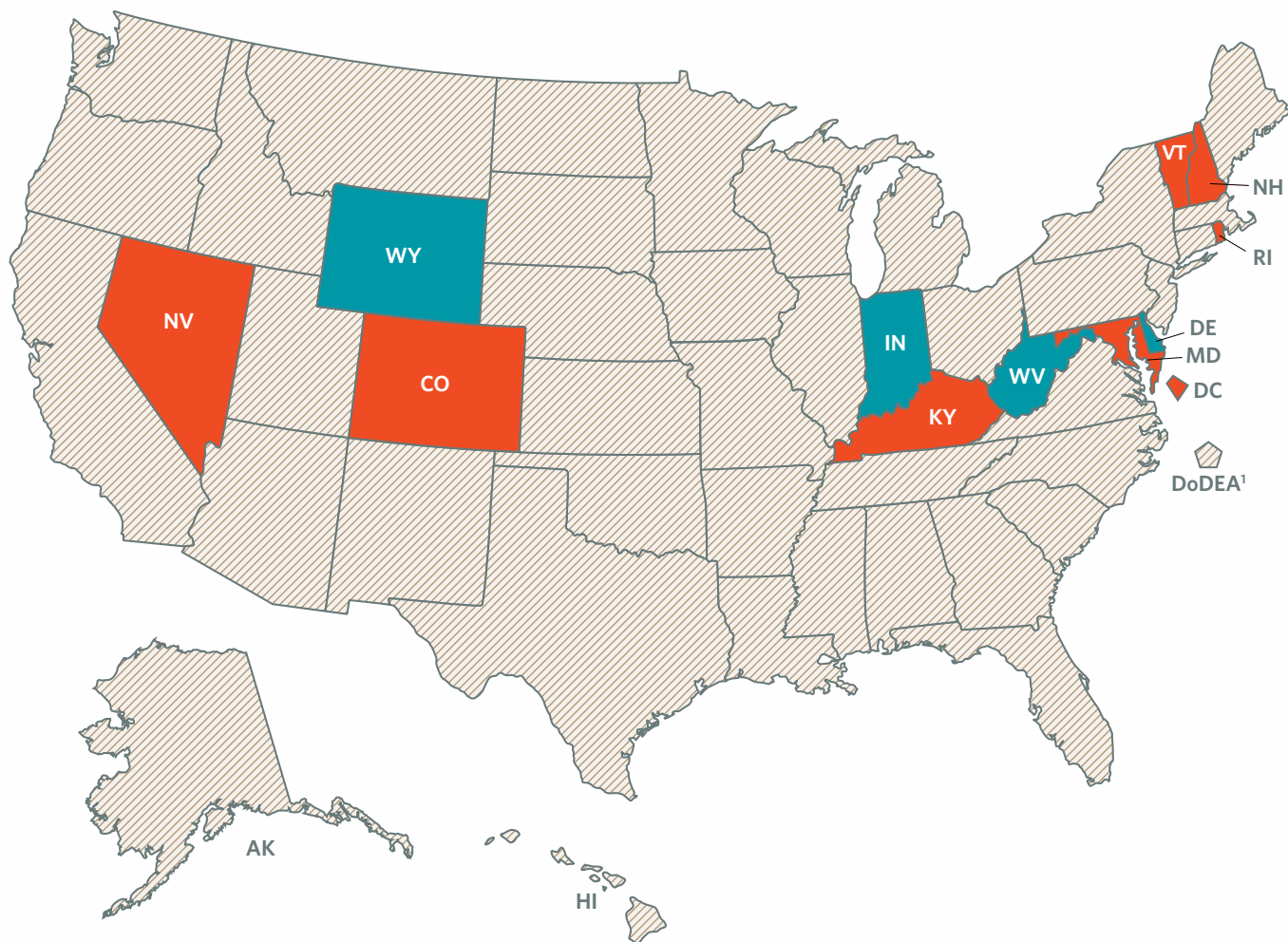


* Significantly different ($p < .05$) from 2009.

NOTE: Black includes African American, and Hispanic includes Latino. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2009 Mathematics Assessments.

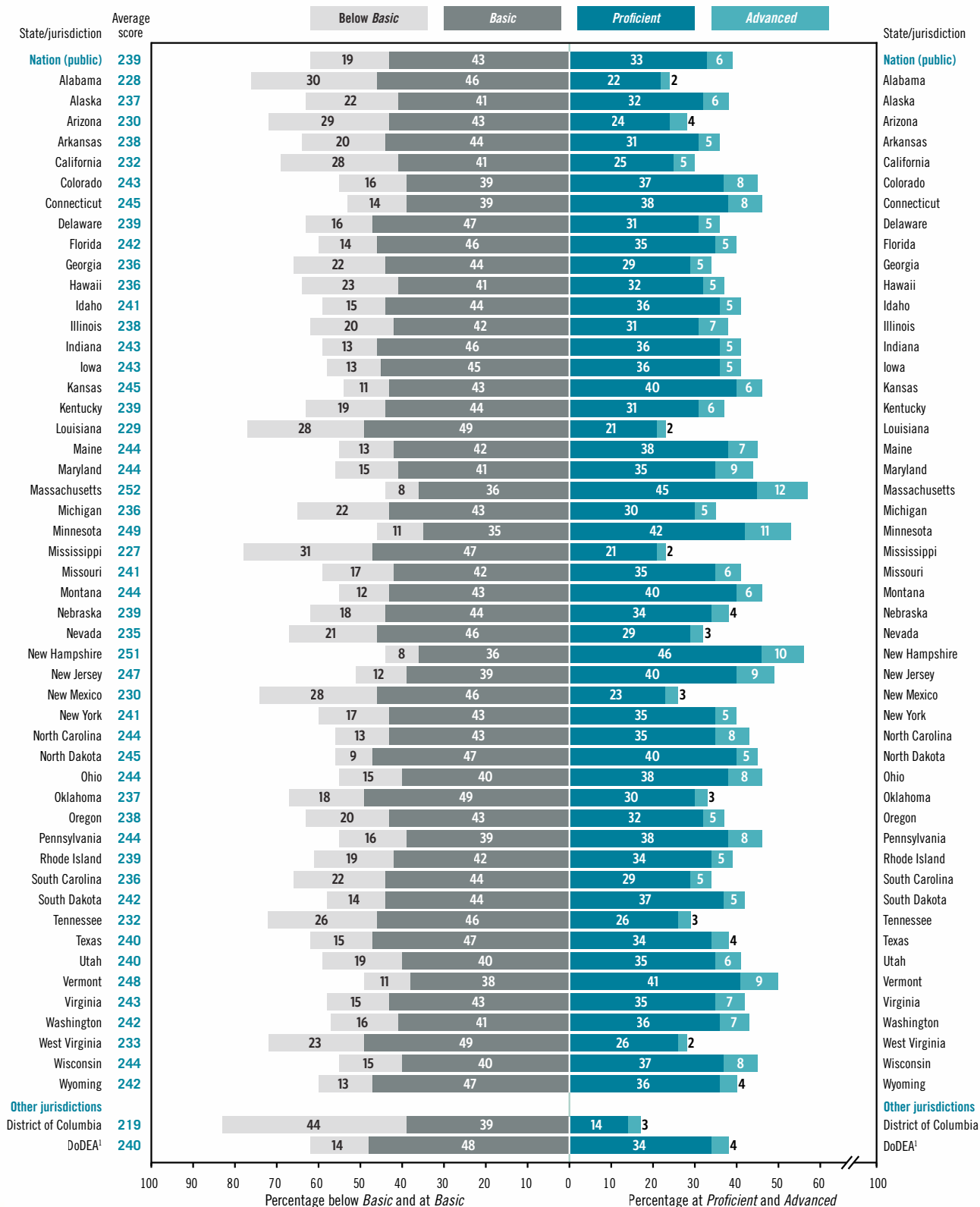
Scores increase since 2007 in 8 states and decrease in 4 states



¹Department of Defense Education Activity (overseas and domestic schools).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 and 2009 Mathematics Assessments.

State Scores and Achievement-Level Results

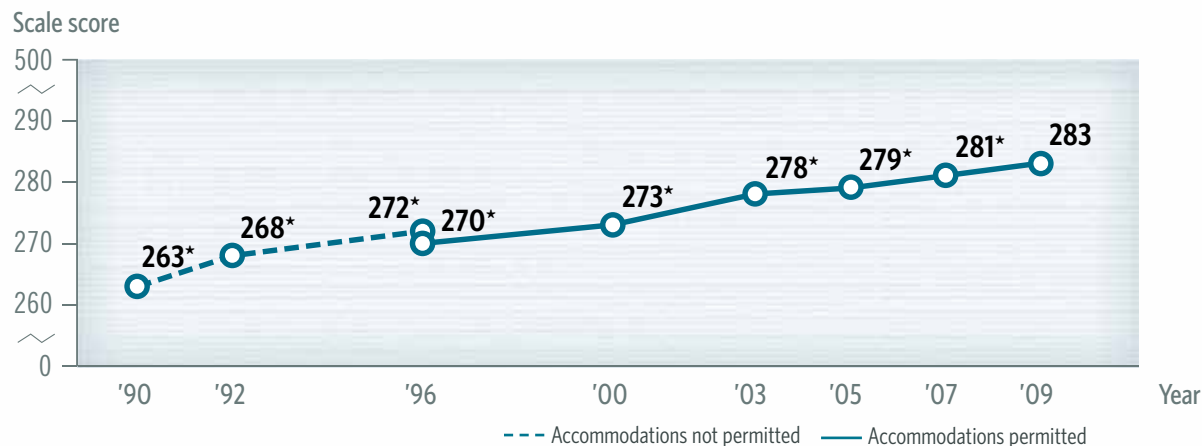


¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: The shaded bars are graphed using unrounded numbers. Detail may not sum to totals because of rounding.

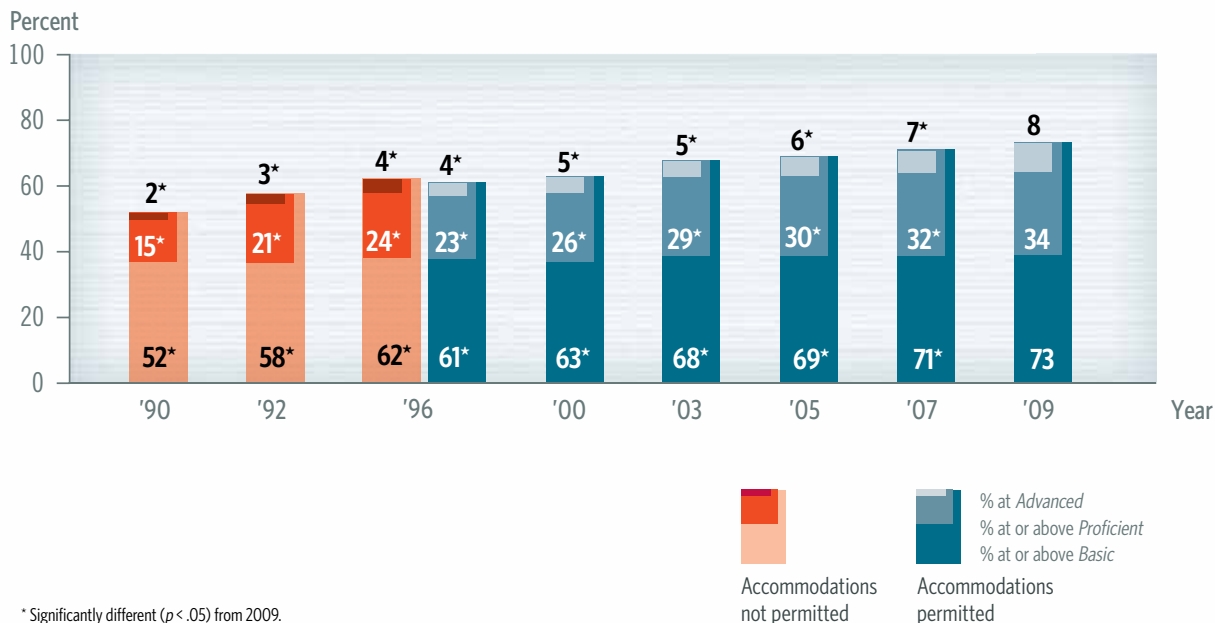
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 Mathematics Assessment.

Eighth-graders' mathematics performance continues to improve



* Significantly different ($p < .05$) from 2009.

Gains since 2007 across achievement levels



* Significantly different ($p < .05$) from 2009.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2009 Mathematics Assessments.

Most racial/ethnic groups continue to make gains

	CHANGE IN AVERAGE SCORES	
	Since 1990	Since 2007
Overall	▲	▲
White	▲	▲
Black	▲	▲
Hispanic	▲	▲
Asian/Pacific Islander	▲	▲
American Indian/ Alaska Native	⚡	◆

▲ Indicates the score was higher in 2009.

◆ Indicates no significant change in the score in 2009.

⚡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

White

- Up 2 points from 2007
- Up 23 points from 1990

Black

- Up 1 point from 2007
- Up 24 points from 1990

Hispanic

- Up 2 points from 2007
- Up 21 points from 1990

Asian/Pacific Islander

- Up 4 points from 2007
- Up 26 points from 1990

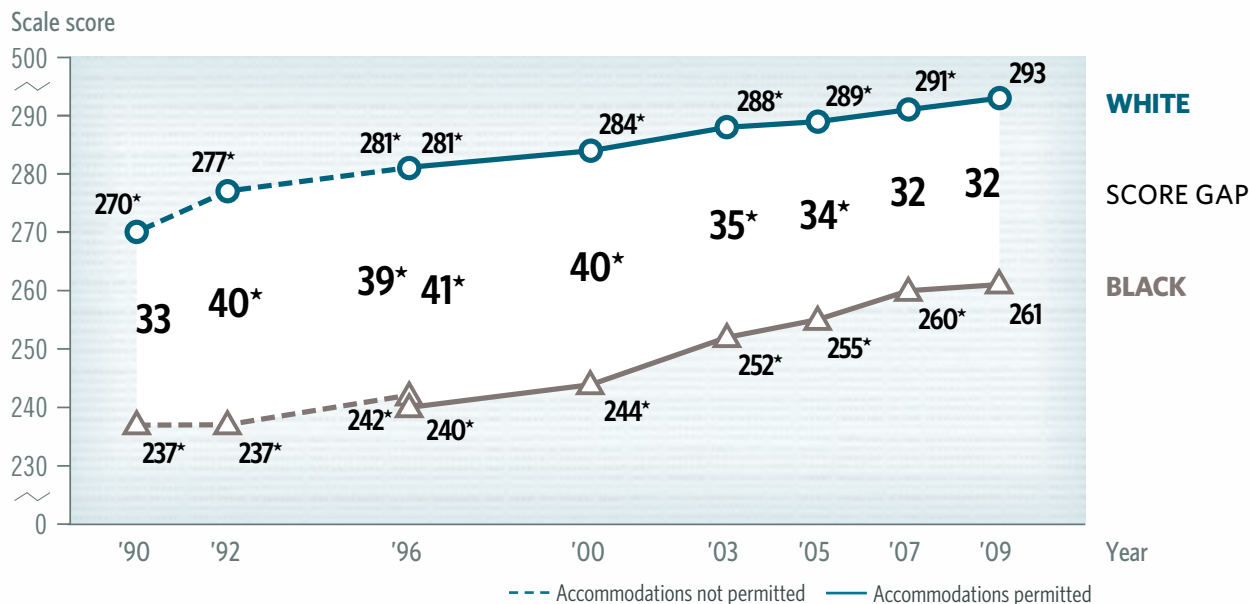
American Indian/Alaska Native

- No significant change from 2007

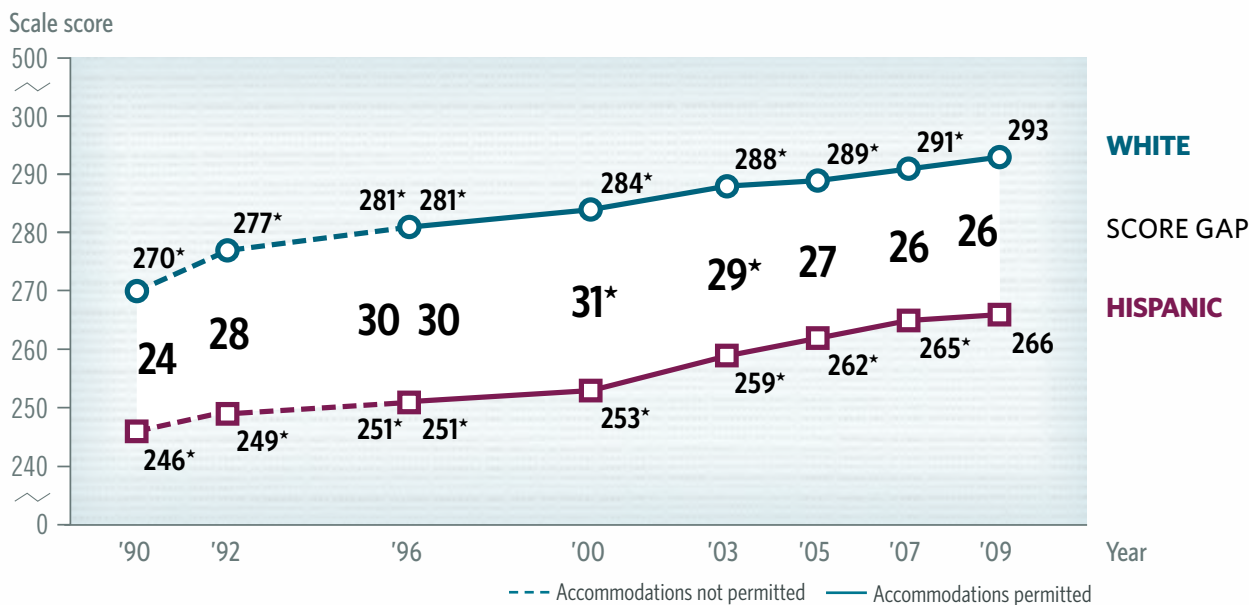
NOTE: Black includes African American, Hispanic includes Latino, and Pacific Islander includes Native Hawaiian. Race categories exclude Hispanic origin.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1990, 2007, and 2009 Mathematics Assessments.

No significant change in White – Black score gap compared to 2007 or 1990



No significant change in White – Hispanic gap compared to 2007 or 1990

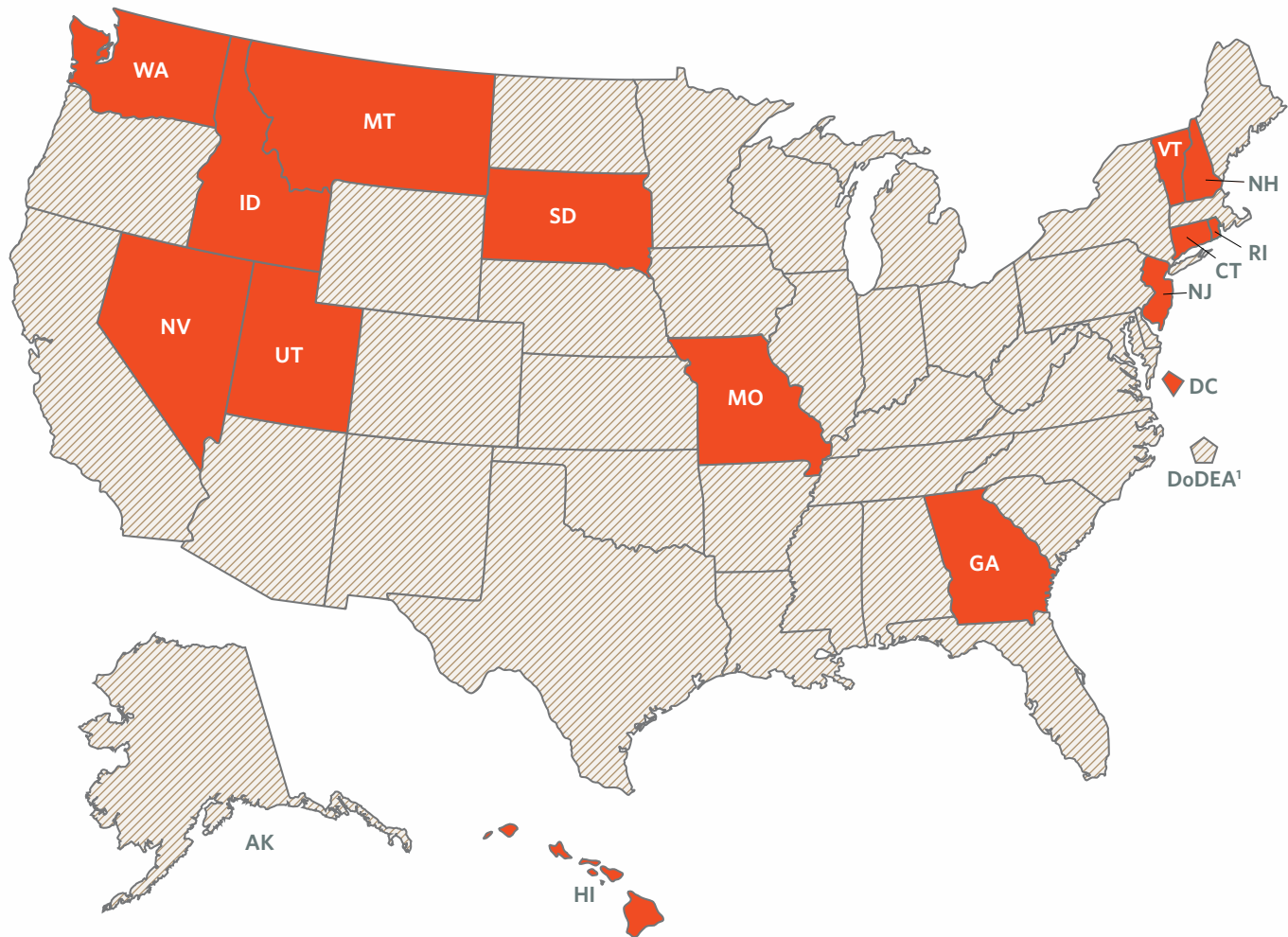



* Significantly different ($p < .05$) from 2009.

NOTE: Black includes African American, and Hispanic includes Latino. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2009 Mathematics Assessments.

Scores increase since 2007 in 15 states



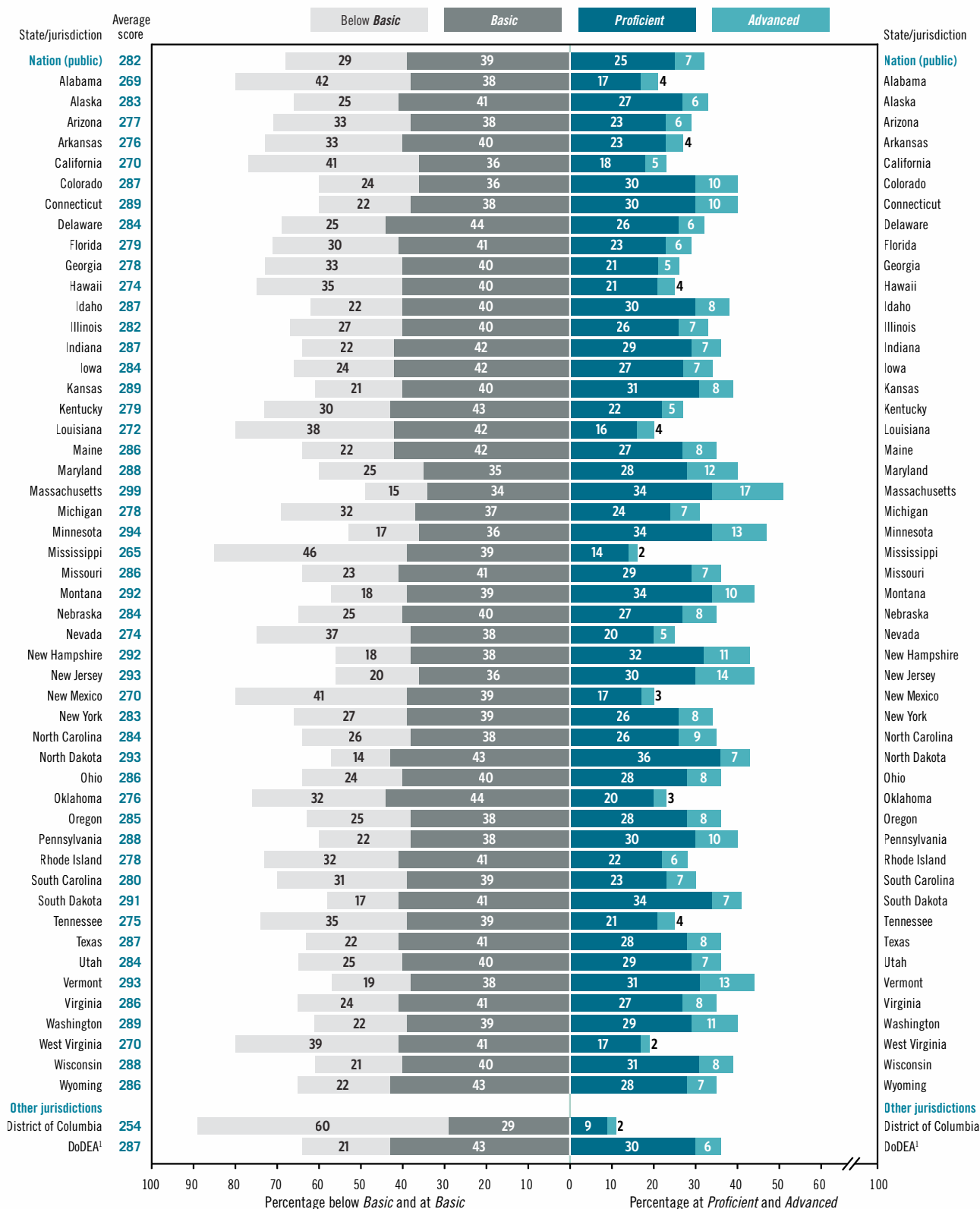
 Scores increased in Connecticut, District of Columbia, Georgia, Hawaii, Idaho, Missouri, Montana, New Hampshire, New Jersey, Nevada, Rhode Island, South Dakota, Utah, Vermont, and Washington

 No significant change

¹Department of Defense Education Activity (overseas and domestic schools).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 and 2009 Mathematics Assessments.

State Scores and Achievement-Level Results



¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: The shaded bars are graphed using unrounded numbers. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 Mathematics Assessment.

Photo Credits: © Bonnie Jacobs/iStockphoto; © Veer/Corbis ; © Bill Noll/iStockphoto; © Vlad Mereuta/iStockphoto; © Jose Luis Pelaez, Inc./Blend Images/Corbis; © Image Source/Corbis; © Corbis/Jupiterimages;



"The Department of Education's mission is to promote student achievement and preparation for global competitiveness by fostering educational excellence and ensuring equal access."

www.ed.gov