Measure Up

NAEP NEWS FOR THE SCHOOL COMMUNITY

NAEP
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

IN THIS EDITION

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FALL 2015

WHAT'S HAPPENING IN THE WORLD OF NAEP?

FALL 2015

- Results of the NAEP 2015 assessments in grades 4 and 8 mathematics and reading will be released

WINTER 2016

- Grade 8: Arts
- Pilot assessments on tablets:
  - Grades 4 and 8: Mathematics and Reading
  - Grade 8: Writing

NAEP Resources and Tools that Teachers Can Use

There are several interactive tools that give users information from NAEP that is tailored to their needs and interests. These include:

- NAEP Questions Tool (NQT): Teachers can search NAEP questions by grade, year, and content area. Test yourself with actual NAEP questions and create tests using a pre-formatted assessment or make your own customized assessment for your classroom. Just create an account and you will be able to make a student roster and save your assessment for use throughout the school year.
- NAEP Data Explorer (NDE): Create customizable tables and graphs that display NAEP results across multiple years – broken down by categories such as student grade level and subject area.
- Item Maps: Discover how particular NAEP questions illustrate knowledge and skills of students performing at different achievement levels. Item maps address the question "What does it mean for students to perform at Basic, Proficient, and Advanced?"
- NAEP State and District Comparisons: Build custom tables and maps comparing student performances across states and demographic groups.

For more information about NAEP, visit: http://nces.ed.gov/nationsreportcard

Find us on:

NAEP 2016 Arts Assessment

In 2008, the NAEP arts assessment measured students' knowledge and skills in the arts by asking them to observe, describe, analyze, and evaluate existing works of music and visual art and to create original works of visual art. During winter 2016, NAEP will assess eighth-grade students in music and visual arts. Each student will be assessed in only one of the subjects.

SAMPLE QUESTION – VISUAL ARTS

In the visual arts assessment conducted in 2008, grade 8 students were given a packet containing two prints. Each print showed an image of a self-portrait created by a twentieth-century artist. Self-portrait A is by Kathe Kollwitz, and self-portrait B is by Egon Schiele. Students applied their knowledge of aesthetic properties to the two artworks, and also considered the relationships between these properties and the expressive qualities of each work. After students answered questions about the prints, they were asked to create their own self-portrait.

SAMPLE QUESTION – MUSIC

The sample question below from the music assessment conducted in 2008 asked grade 8 students to identify the sound of an instrument. The music played for this question comes from the opening of "Rhapsody in Blue" by American composer George Gershwin. The audio is available in the Arts Report Card at http://www.nationsreportcard.gov/arts_2008/a0026.aspx.

Learn more about what the arts assessment measures at http://nces.ed.gov/nationsreportcard/arts/whatmeasure.aspx.

See more about these and other questions in the NAEP Questions Tool at https://nces.ed.gov/nationsreportcard/nqt.

Digitally Based Assessments

The NAEP program is in the midst of transitioning all of its assessments to digitally based content and delivery. Beginning in 2017, the NAEP mathematics, reading, and writing assessments will be administered to students throughout the nation on NAEP-provided tablets. Additional subjects will be administered on tablets in 2018 and 2019.

During testing, all necessary equipment (tablets, earbuds, and administrative equipment) will be provided by NAEP. The only resources a school will need to provide will be space, desks or tables, and access to electrical outlets. Students will be provided a tutorial that will help them understand how to use the equipment and tools and enter their responses. Non-cognitive questionnaires that record the learning experiences of students will also be administered to students on tablets.

NAEP is taking a phased approach to this transition to digitally based assessments:

The first stage began with a pilot test in 2015 for mathematics, reading, and science. The program piloted existing paper-and-pencil content using the latest technology tools. Content of the assessments can be viewed now in Sample Questions booklets created for each assessment. NCES piloted science interactive computer tasks (ICTs) and hands-on tasks (HOTs) on tablets.

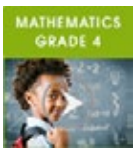
Digitally based assessments administered in 2016 and beyond will use the latest technology available. Some questions may include multimedia such as audio and video. Other questions may allow the use of embedded technological features (such as an onscreen calculator) to form a response.

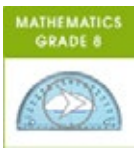
NAEP is using the latest technology available to deliver assessments to students. As technology evolves, so will the delivery of the assessments.

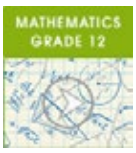
TUTORIALS FOR THE 2016 DIGITALLY BASED ASSESSMENTS

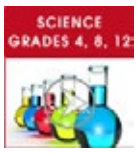
At the beginning of the assessment, students will take a brief interactive tutorial. The tutorials are designed to teach students about the system and the tools they use to take the assessment. Students are asked to use tools and system features during the tutorial. Some parts of the tutorials are the same across subjects, while other parts are specific to each subject. Because mathematics uses different tools at each grade, there are different tutorials for each grade in mathematics.

Videos of the tutorials for the 2015 mathematics, reading, and science assessments are available below.









Program For International Student Assessment (PISA) 2015

PISA is an international assessment that measures 15-year-old students' reading, mathematics, and science literacy every 3 years since 2000. The assessment emphasizes functional skills that students have acquired as they near the end of compulsory schooling. PISA is coordinated by the Organization for Economic Cooperation and Development (OECD), an intergovernmental organization of industrialized countries, and is conducted in the United States by the National Center for Education Statistics (NCES).

PISA will be administered in fall 2015 and will assess students' mathematics, reading, and science literacy in more than 70 countries and educational jurisdictions. Science is the major subject area in 2015, as it was in 2006. PISA 2015 will also include a collaborative problem solving assessment and an optional financial literacy assessment. Fifteen-year-old students in the United States will also participate in the optional assessment.

Mapping State Proficiency Standards onto NAEP Scales: Results from the 2013 NAEP Reading and Mathematics Assessments Release

Under the 2001 reauthorization of the Elementary and Secondary Education Act of 1965, states developed their own assessments and set their own proficiency standards to measure student achievement. This has resulted in a great deal of variation among the states, both in their proficiency standards and in their student assessments (NCES 2008-475). This variation has created a challenge in understanding the ability levels of students across the United States because there is no means to compare the proficiency levels established by one state against the others directly. To address this need, the National Center for Education Statistics (NCES) has published periodic reports for the past 10 years in which the National Assessment of Educational Progress (NAEP) is used as a common metric for examining the proficiency standards set by states in reading and mathematics in grades 4 and 8.

The *Mapping State Proficiency Standards Onto NAEP Scales: Results from the 2013 NAEP Reading and Mathematics Assessments report*, the fifth in the series, summarizes the results of applying a methodology for mapping state proficiency standards onto the NAEP scales by using state public school data for the 2012-13 school year and the 2013 NAEP assessments in reading and mathematics for grades 4 and 8. The report also includes analyses of the results using the 2011 NAEP and state assessment data and revised estimates for 2009 reported in *Mapping State Proficiency Standards Onto NAEP Scales: Variation and Change in State Standards for Reading and Mathematics, 2005-2009*.

KEY FINDINGS

In fourth-grade reading, 26 states had proficiency standards that were below the NAEP *Basic* cut point, 23 states were within the *Basic* range, and 2 were in the *Proficient* range.

In grade 4 mathematics, 4 states had proficiency standards that were below *Basic*, 42 were in the *Basic* range, and 5 states were in the *Proficient* range.

In grade 8 reading, 10 state standards were below NAEP's *Basic* cut point, while 40 were in the *Basic* range. Only one state—New York—was in the *Proficient* range.

In grade 8 mathematics, 8 states had state proficiency standards that were below NAEP's *Basic* range, 38 states were in the *Basic* range, and 3 states—North Carolina, Texas, and New York—had a standard that was in the *Proficient* range.

State proficiency standards for grade 4 reading and mathematics classified into NAEP achievement levels: 2013

		Reading			
		Below Basic	Basic	Proficient	Total
Mathematics	Proficient	— 0	MA, NC, TX 3	NY, WI 2	5
	Basic	AK, AR, AZ, CA, DC, HI, IN, IA, KS, LA, MS, MT, NE, NV, ND, OH, OK, OR, SC, SD, UT, WY 22	CO, CT, DE, FL, IL, KY, ME, MI, MN, MO, NH, NJ, NM, PA, RI, TN, VT, VA, WA, WV 20	— 0	42
	Below Basic	AL, GA, ID, MD 4	— 0	— 0	4
	Total	26	23	2	51

— No states in the category.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2013 Reading and Mathematics Assessments.

State proficiency standards for grade 8 reading and mathematics classified into NAEP achievement levels: 2013

		Reading			
		Below Basic	Basic	Proficient	Total
Mathematics	Proficient	— 0	NC, TX 2	NY 1	3
	Basic	AK, AR, KS, OK, UT 5	AZ, CO, DE, FL, HI, IA, IL, KY, LA, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NJ, NM, NV, OR, PA, RI, SC, SD, TN, VT, WA, WI, WV, WY 33	— 0	38
	Below Basic	AL, CT, GA, ID, OH 5	DC, IN, MS 3	— 0	8
	No Test	— 0	CA, VA 2	— 0	2
	Total	10	40	1	51

— No states in the category.

NOTE: California and Virginia do not assess general mathematics in grade 8.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2013 Reading and Mathematics Assessments.

ONLINE RESOURCES

WHAT'S HAPPENING IN THE WORLD OF NAEP	
Arts	http://nces.ed.gov/nationsreportcard/arts
Mathematics assessment	http://nces.ed.gov/nationsreportcard/mathematics
Reading assessment	http://nces.ed.gov/nationsreportcard/reading
Writing assessment	http://nces.ed.gov/nationsreportcard/writing
NAEP RESOURCES AND TOOLS	
NAEP Questions Tools (NQT)	http://nces.ed.gov/nationsreportcard/nqt
NAEP Data Explorer (NDE)	http://nces.ed.gov/nationsreportcard/naepdata
Item Maps	http://nces.ed.gov/nationsreportcard/itemmaps
NAEP State and District Comparisons Tool	http://nces.ed.gov/nationsreportcard/statecomparisons
NAEP 2016 ARTS ASSESSMENT	
NAEP arts assessment	http://www.nationsreportcard.gov/arts_2008
Visual arts assessment	http://www.nationsreportcard.gov/arts_2008/a0027.aspx
Music assessment	http://www.nationsreportcard.gov/arts_2008/a0026.aspx
What Does the NAEP Arts Assessment Measure?	http://nces.ed.gov/nationsreportcard/arts/whatmeasure.aspx
DIGITALLY BASED ASSESSMENTS	
Digitally based content and delivery	http://nces.ed.gov/nationsreportcard/tba
Sample Question booklets	http://nces.ed.gov/nationsreportcard/about/booklets.aspx
Interactive computer and hands-on tasks	http://www.nationsreportcard.gov/science_2009/ict_summary.aspx
Video Tutorials: Mathematics Grade 4	https://www.youtube.com/watch?feature=player_embedded&v=gqHu27EuiZg
Video Tutorials: Mathematics Grade 8	https://www.youtube.com/watch?v=sdKzcFieyNA&feature=player_embedded
Video Tutorials: Mathematics Grade 12	https://www.youtube.com/watch?v=yyNxRX9FJ3M&feature=player_embedded
Video Tutorials: Reading Grades 4, 8, 12	https://www.youtube.com/watch?v=D8YigVXosJ4&feature=player_embedded
Video Tutorials: Science Grades 4, 8, 12	https://www.youtube.com/watch?v=l53h3mSgPrU&feature=player_embedded
PROGRAM FOR INTERNATIONAL STUDENT ASSESSMENT (PISA) 2015	
PISA	http://nces.ed.gov/surveys/pisa
Organization for Economic Cooperation and Development (OECD)	http://www.oecd.org/pisa/aboutpisa
MAPPING STATE PROFICIENCY STANDARDS ONTO NAEP SCALES: RESULTS FROM THE 2013 NAEP READING AND MATHEMATICS ASSESSMENTS RELEASE	
Mapping State Proficiency Standards	http://nces.ed.gov/nationsreportcard/studies/statemapping

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