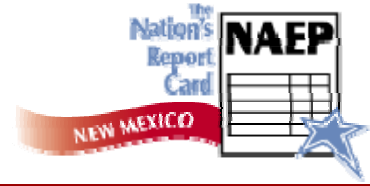




Dr. Karen Kay Harvey,
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Bill Richardson, Governor
Dr. Veronica C. Garcia, Secretary of Education

Assessment Information for 2007 NAEP

Mathematics Assessment:

Questions are based on five mathematics content areas:

- ◆ Number properties and operations
- ◆ Measurement
- ◆ Geometry
- ◆ Data analysis and probability
- ◆ Algebra

Questions categorized according to

Complexity which describes what level of cognitive demand is required (low, moderate, or high) for students to answer questions correctly.

Questions are both multiple-choice and constructed-response designed to assess the framework objective.

Reading Assessment:

The framework is based on research that views reading as a dynamic process involving the reader, text, and the context of the reading experience.

Includes three (3) contexts for reading: to be assessed:

- ◆ Reading for literary experience (Grades 4, 8, and 12)
- ◆ Reading to gain information (Grades 4, 8, and 12)
- ◆ Reading to perform a task (Grades 8 and 12)

Four Aspects of Reading:

- ◆ Forming a General Understanding
- ◆ Developing an Interpretation



- ◆ Making Reader/Text Connections
- ◆ Examining the Content and Structure

Students are asked to read passages and respond to related comprehension questions that are presented in multiple-choice and constructed-response formats.

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Special points of interest:

- ◆ *170,000 students at each grade and subject will be selected to represent the state and nation.*
- ◆ *In grade 4 schools, all eligible students will be assessed.*
- ◆ *In grade 8 schools, the sample will be approximately 90-100.*
- ◆ *Writing will only be assessed at grades 8 and 11.*

Inside this issue:

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NAEP Scores Grade 4 Science Compared to Five Surround-

Grade 8 Math Comparisons by Ethnic Group 4

Sample Questions:

Grade 12 Writing Prompt:

“If you were told you could save just one book for future generations, which book would you choose and why?”

Grade 12 Science Question:

“Mechanical weathering is the physical breakdown or disintegration of rocks without a change in composition. Briefly explain two ways that rocks can undergo mechanical weathering.”

To use released items in the classroom, teachers can visit <http://nationsreportcard.gov> and select “Sample Questions”.

The **Questions Tool** provides questions, rubrics, exemplars, and data on how students’ performed on the questions.

Released Main NAEP Questions by Subject, Year, Grade

Year	1990			1992			1994			1996			1998			2000			2001			2002			2003			2005												
Grade	4	8	12	4	8	12	4	8	12	4	8	12	4	8	12	4	8	12	4	8	12	4	8	12	4	8	12	4	8	12										
Subject																																								
Civics																			30	37	38																			
Geography																			31	49	33																			
History																			47	50	53																			
Mathematics	33	38	41	59	69	63							25	29	29																									
Reading																			11	19	10							10	8	15	9									
Science																									31	45	38													
Writing																									3	4	4													

Released Long-Term Trend Questions by Subject, Year, Age

Year	2004		
Age	9	13	17
Long-term trend			
Mathematics	17	20	28
Reading	10	9	9

NAEP Support:

National Assessment Governing Board (NAGB)-Independent organization where members are appointed by the U.S. Secretary of Education. NAGB provides overall policy direction to the NAEP program. It is an independent, bipartisan group whose members include governors, state legislators, local and state school officials, educators, business representatives, and members of the general public.

Educational Testing Service (ETS)-NAEP’s item development, instruments, and data analysis contractor.

Westat- NAEP’s supplier of customized sampling, data collection, and weighting procedures.

Pearson-NAEP’s materials and scoring contractor.

By law (P.L. 107-110 as amended by P.L. 107-279), the National Assessment is carried out by the Commissioner of Educational Statistics under policy guidance of the National Assessment Governing Board (NAGB). The Commissioner is head of the National Center for Educational Statistics (NCES).

NAEP Writing Assessment:

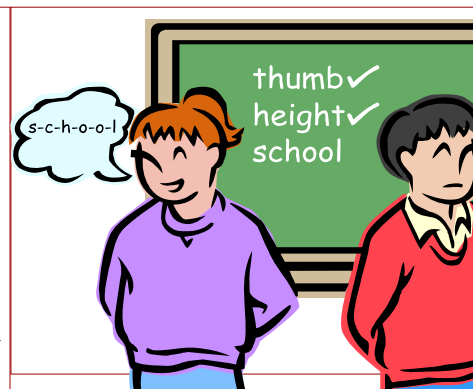
The NAEP Writing Framework specifies students are to be assessed in three broad modes or types of writing:

- ◆ **Narrative writing** fosters imagination and speculation. The range of narrative writing tasks includes first-person and third-person fictional short stories, fables, and personal essays.
- ◆ **Informative writing** is used to share knowledge and to convey messages, instructions, and ideas. The range of

informative writing tasks includes description, explanation, and analysis.

- ◆ **Persuasive writing** emphasizes the audience and involves an awareness of what facts or arguments might affect the audience being addressed.

The writing assessment requires each student to complete two 25 minute writing tasks. The writing is evaluated using a focused holistic scoring rubric with six levels of accomplishment for each task.



Grade 12 NAEP Results Show. . .

- ◆ Twelfth-grade students whose teachers had “very positive” **expectations for achievement** scored higher than students whose teachers had “somewhat negative” expectations.
- ◆ Twelfth-grade students who indicated **writing long answers on reading tests** at least once a week scored higher than students who wrote long answers on reading tests one to two times per year.
- ◆ Twelfth-grade students who **used a graphing calculator for math schoolwork** scored higher than students who did not use graphing calculator. Sixty-one percent of twelfth-grade students reported using a graphing calculator for math schoolwork.
- ◆ Twelfth-grade students who at least sometimes were asked by their teachers to **write more than one draft of a paper** scored higher than students who were never asked to do so.
- ◆ Twelfth-grade students who spent at least 15 **minutes per day on math homework** scored higher than students who spent no time on math homework each day.
- ◆ Twelfth-grade students who **had a class discussion** about something the whole class read at least once or twice a week scored higher than students who did so only once or twice a month.

Background Questions:

Student Questionnaires:

These questionnaires collect information on students’ demographic characteristics, classroom experienced, and educational support. (student completes)

Teacher Questionnaires:

These questionnaires gather data on teacher background, training, and instructional practices. (teacher completes)

School Questionnaires:

These questionnaires gather information on school policies and characteristics. (completed by the principal or assistant principal.

SD/ELL (students with disabilities or English language learners) Questionnaires:

These questionnaires collect information about students selected in the sample who have disabilities or are English language learners (completed by staff member who is most familiar with the student).

Assessment Day Tips:

- *Encourage your students to do their best!*
- *Explain to your students that they are representing many other students across the country.*
- *Emphasize to your students the importance of showing the country what students in the United States know and are able to do.*

NAEP Scale Scores and Achievement Levels

Mathematics and Reading:

Scale 0-500

Science and Writing:

Scale 0-300

Performance Levels:

Basic: This level denotes partial mastery of prerequisite knowledge and skills that are fundamental for proficient work at each grade.

Proficient: This level represents solid academic performance for each grade assessed. Students achieving this level have demonstrated competency over challenging subject matter.

Advanced: This level signifies superior performance.

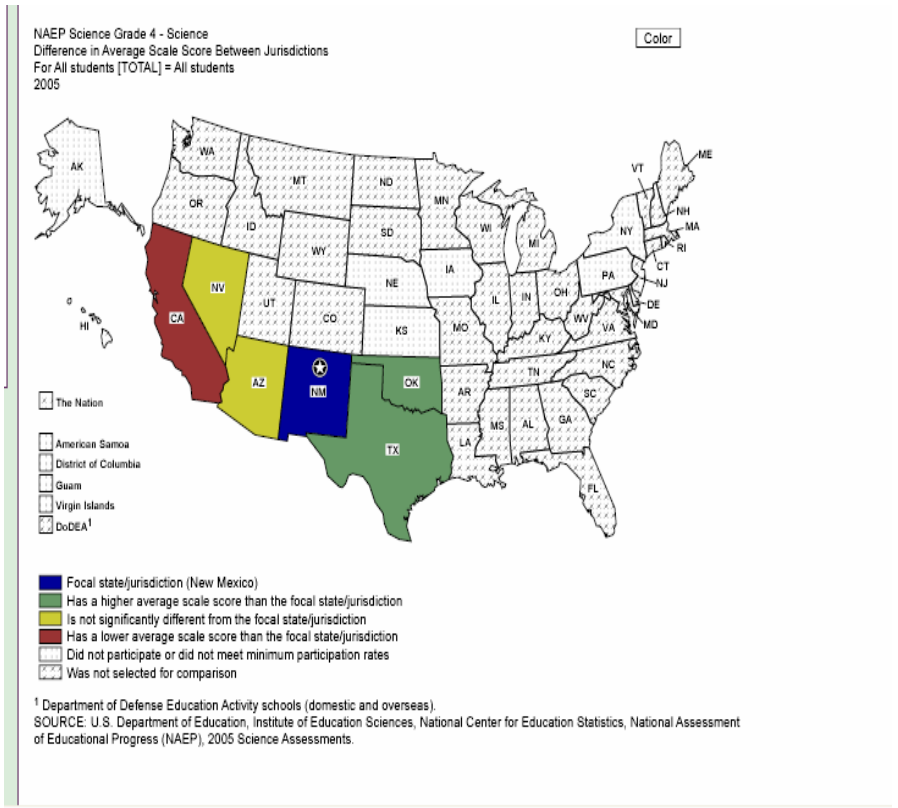
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“The Nation’s Report Card”
National Assessment of Educational Progress



Grade 8 Math

	1990*	1992*	1996*	2000	2003	2005
Anglo	271	272	277	274	282	279
Hispanic	247	248	252	251	254	255
Native American	237	246	252	244	245	253

