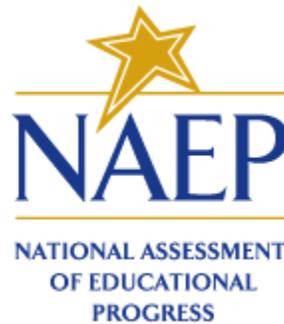


## Introduction to the National Assessment of Educational Progress (NAEP)

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## Introduction to the National Assessment of Educational Progress (NAEP)

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### Module Objectives

- Introduce the [National Assessment of Educational Progress \(NAEP\)](#) and describe the study's:
  - Design
  - Target population and sample design
  - Assessment components
  - Reporting
- Highlight the topics for which data are available for analysis

## Introduction to the National Assessment of Educational Progress (NAEP)

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#### Overview of NAEP

- NAEP is an essential measurement of student achievement in the United States
- First administered in 1969, NAEP is the largest continuing and nationally representative assessment of what our nation's students know and can do in various subjects

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#### Overview of NAEP (Continued)

- Provides a common measure of how students across the nation are performing
- NAEP is a Congressionally-mandated program conducted by the National Center for Education Statistics (NCES) within the U.S. Department of Education
- [“The Nation’s Report Card”](#)

Introduction to the National Assessment of Educational Progress (NAEP)

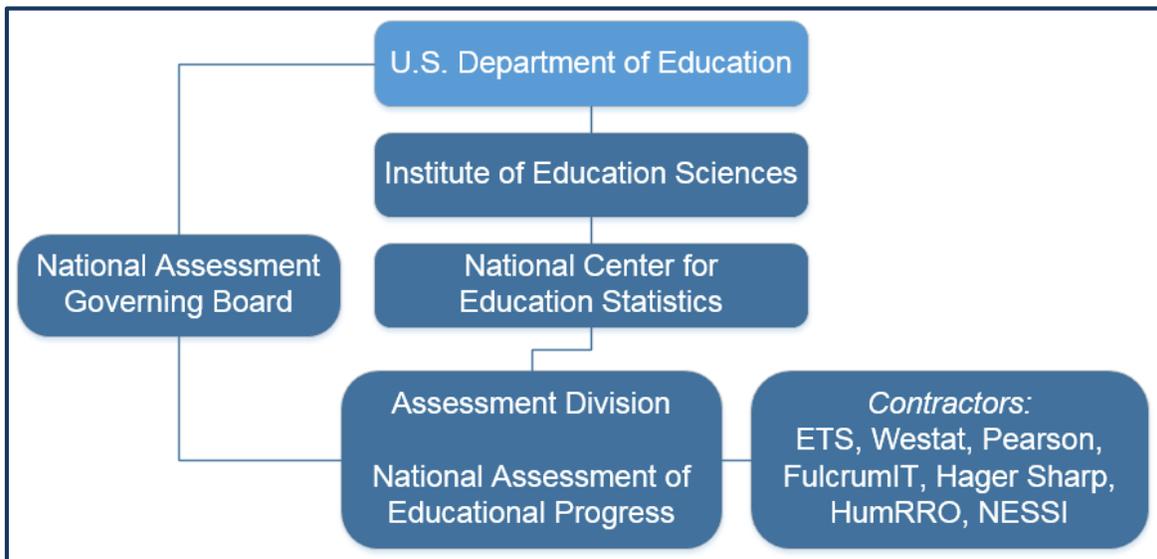
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Overview of NAEP (Continued)

- NAEP is a survey designed to produce national, state, and large urban school district results, not a testing program for individual students or schools
- NAEP does not provide results at the school or student level and only for a handful of districts

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NAEP Organizational Chart



NOTE: More information about these [contractors](#) and their role in NAEP assessment operations is available on the NAEP homepage

## Introduction to the National Assessment of Educational Progress (NAEP)

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#### Overview of NAEP – NAGB

- Policy oversight and guidance is provided by the [National Assessment Governing Board \(NAGB\)](#)
- An independent, bipartisan organization that oversees the National Assessment of Educational Progress
- Board members are appointed by the U.S. Secretary of Education

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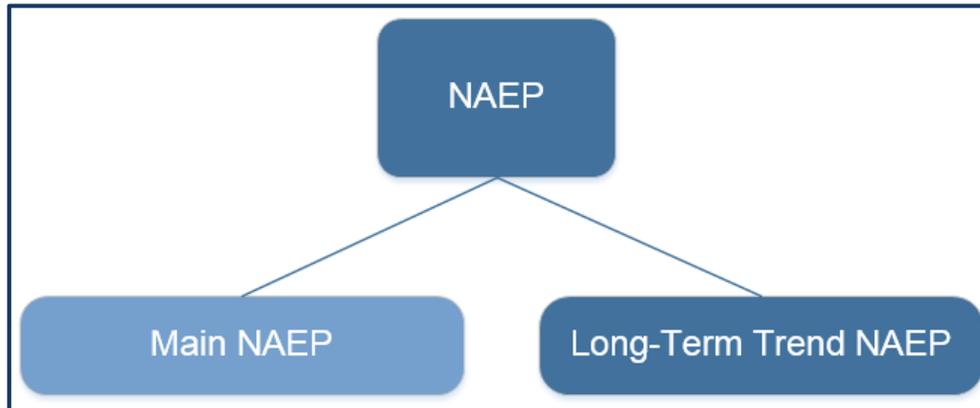
#### NAEP Assessments

- Mathematics, Reading, Science, and Writing are assessed most frequently
- Also assessed are Civics, Economics, Foreign Language, Geography, U.S. History, Arts, Technology and Engineering Literacy, and World History
- NAEP is moving to all Digitally-Based Assessments
  - Tablet platform
  - Scenario Based Tasks

## Introduction to the National Assessment of Educational Progress (NAEP)

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### Components of the NAEP Program



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### Main NAEP

- Assesses grades 4, 8, and 12 in public and private schools
- National, state, and district results
  - Every two years (odd years)
    - Reading
    - Mathematics
  - Every four years (even years)
    - Science
    - Writing
- Other subjects are national only
  - U.S. History, Geography, Civics, Economics, and Arts
- The subject-area frameworks for assessments are developed by NAGB

## Introduction to the National Assessment of Educational Progress (NAEP)

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#### Main NAEP – National Assessment

- Reports statistical summaries of students achievement and factors related to educational performance for the Nation and specific subgroups of the population
- Includes students achievement at Grades 4, 8, and 12 drawn from public and private schools

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#### Main NAEP – State Assessment

- State level assessment reporting for public schools began in 1990
  - 50 states and the District of Columbia
  - Department of Defense
  - Bureau of Indian Education
  - Puerto Rico (mathematics only)
- State assessment allows states to
  - Monitor progress over time in selected subject areas
  - Compare themselves to other states and the Nation

Introduction to the National Assessment of Educational Progress (NAEP)

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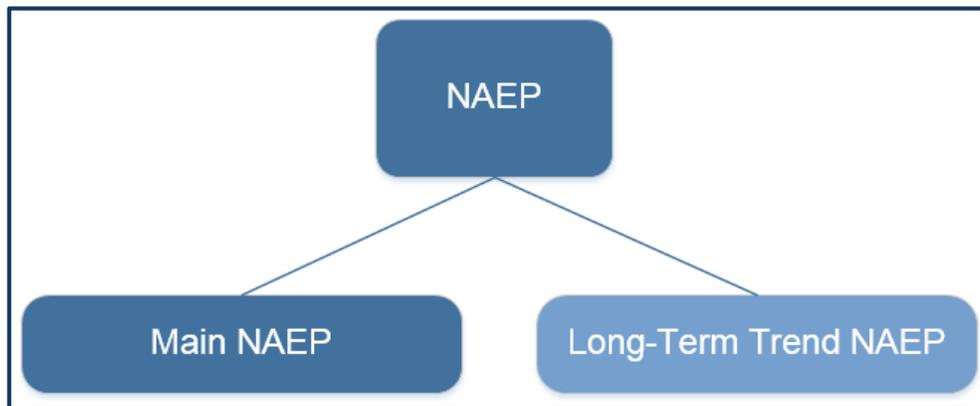
Main NAEP – TUDA

- Trial Urban District Assessment (TUDA) began in 2002
- Allows participating districts to judge performance of their students, and enables comparisons to be made between other urban districts, states, and to the Nation
  - 2002: 6 districts
  - 2009: 18 districts
  - 2011: 21 districts



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Components of the NAEP Program



## Introduction to the National Assessment of Educational Progress (NAEP)

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#### NAEP Long-Term Trend LTT

- Designed to provide information on the changes in the performance of the nation's 9-, 13-, and 17- year-old students
  - No state level results
- Has measured students' performance in mathematics and reading since 1971
  - 2012 is the most recent; 2020 will be the next administration
- The framework remains stable to maintain trend comparisons

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#### **NAEP Sampling**

- Nationally representative samples of schools and students across the nation
- Students who participate represent the diversity of the student body of the United States

**Introduction to the National Assessment of Educational Progress (NAEP)****Slide 17 of 31****NAEP Samples**

- State assessments
  - Approximately 100 schools and 3,000 students per state, subject, and grade
- TUDA assessments
  - Approximately 50 schools and 1,600 students per district, subject, and grade
- National assessments
  - Approximately 600 schools and 12,000 students per subject and grade
- Approximately 1 million students assessed in January through March 2015 in around 19,000 schools

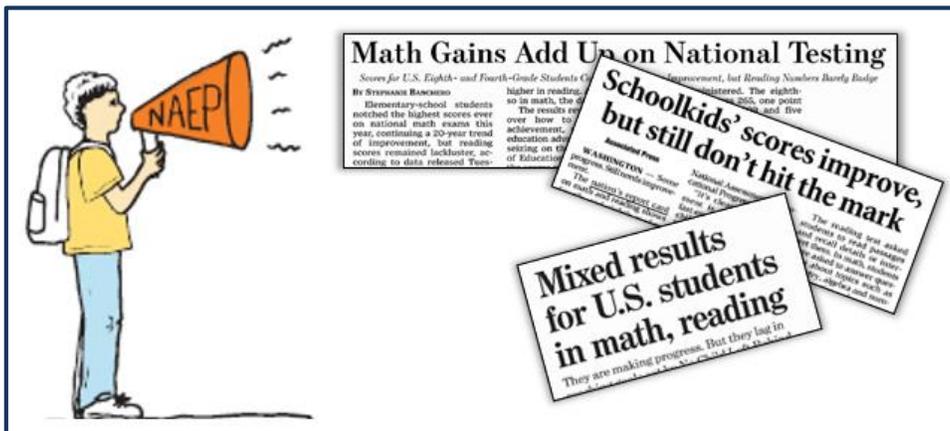
**Slide 18 of 31****NAEP Samples – Selected Students**

- Each student takes only a small subset of the total assessment item pool
  - [Testing](#) time is 50 minutes
  - Each student participates in only one subject area
- No individual student scores or school scores are reported
- Design maximizes content coverage, while minimizing burden on students and schools

Introduction to the National Assessment of Educational Progress (NAEP)

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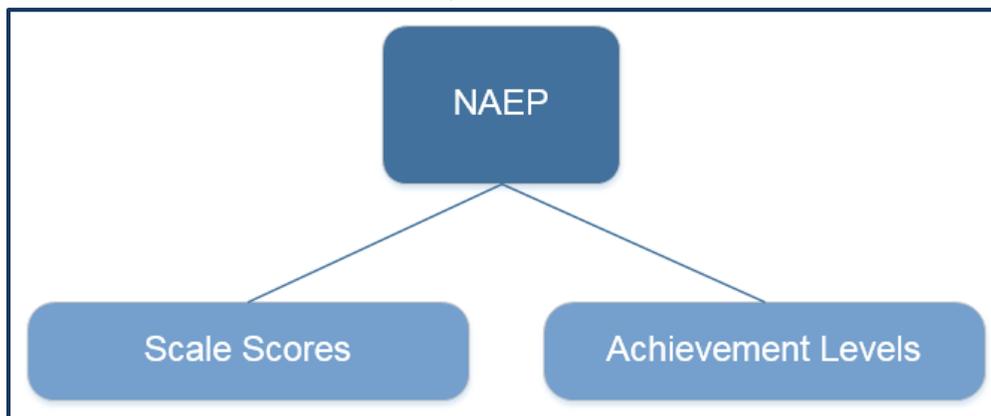
NAEP Reporting



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NAEP Reporting (Continued)

Student performance is reported in two ways



**Introduction to the National Assessment of Educational Progress (NAEP)****Slide 21 of 31****NAEP Reporting: Scale Scores**

Scale Scores represent the average performance of students on a numeric scale

- Interval level of measurement (e.g., Mathematics 0 – 500; Science 0 – 300)
- Provide a mechanism that allows for the consistent reporting of achievement over time on a common scale
- Cannot compare scores across content, subject areas or grades
  - Can't compare mathematics scores to reading scores

**Slide 22 of 31****NAEP Reporting: Achievement Levels**

Achievement Levels are a set of standards that define what students should know and be able to do in each subject area assessed

- Provide a mechanism that allows for behavioral reporting of achievement
- NAEP achievement levels are not related to state assessment achievement levels
  - NAEP results cannot be compared to assessments conducted by states

## Introduction to the National Assessment of Educational Progress (NAEP)

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#### NAEP Reporting: Achievement Levels (Continued)

General achievement levels for all NAEP content areas

- **Basic** denotes partial mastery of prerequisite knowledge and skills that are fundamental for proficient work at each grade
- **Proficient** represents solid academic performance. Students reaching this level have demonstrated competency over challenging subject matter
- **Advanced** represents superior performance

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#### NAEP Reporting: Disaggregated Data

Data are disaggregated by

- Subgroups (race/ethnicity, gender, students with disabilities (SD), and English language learners (ELL))
- Socio-economic Status (SES): National School Lunch Program (NSLP) eligibility and parental education level
- Geography (national, state, and regional comparisons and school location)
- Contextual information (school, teacher, and student questionnaires)

## Introduction to the National Assessment of Educational Progress (NAEP)

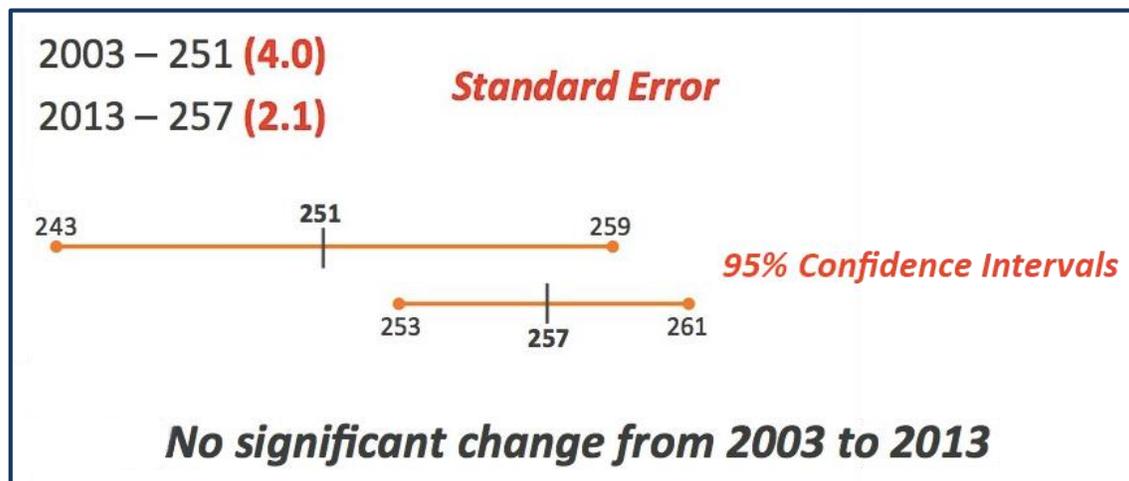
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## NAEP Reporting: Estimates

- NAEP estimates have a degree of variability associated with them due to [sampling](#)
- This variability should be accounted for when making inferences from NAEP data
- Every NAEP statistic has a related standard error
  - An indicator of the variability of the statistic

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## NAEP Reporting: Standard Errors



## Introduction to the National Assessment of Educational Progress (NAEP)

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### NAEP Reporting: Uses

- NAEP provides a credible independent standard that educators, legislators, education writers, policy makers, and the general public can use to gauge the effectiveness of education policies
- NAEP data are used by research scientists who study education policy issues and the development of student skills and abilities

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### NAEP Reporting: Report Cards

Report Cards – Web based summaries with graphics of national, state and urban district results

The screenshot displays the homepage of 'The Nation's Report Card' website. The header includes the site's name and tagline: '...the official site for results from the National Assessment of Educational Progress'. A navigation menu at the top right contains links for 'Home', 'About The Nation's Report Card', and 'Help', along with a search bar. Social media icons for Facebook, Twitter, and YouTube are also present. A prominent banner features a photograph of three smiling students and the text: 'Available Now 2014 The Nation's Report Card: U.S. History, Geography, and Civics at Grade 8'. A 'VIEW REPORT' button is located below the banner. On the left side, a 'Reports' menu lists various subjects: Arts, Civics, Economics, Geography, High School Transcript Study, Long-Term Trend, Mathematics, Mega-States, Reading, Science, U.S. History, Writing, Trial Urban District Assessment, and Nation's Report Card Archive. Below the banner, there are three columns of content: 'New Releases' with a link to 'Available Now: Results from the 2014 U.S. History...', 'See More NAEP Results' with a link to 'See a summary of your state's performance in State Civics to Compare your state to others', and 'Information for Teachers'.

## Introduction to the National Assessment of Educational Progress (NAEP)

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#### NAEP Data Tools

##### Data Tools

-  **Data Explorer >**  
Analyze NAEP data and create tables and graphics.
-  **District Profiles >**  
Explore the results of the NAEP Trial Urban District Assessments (TUDA).
-  **Item Maps >**  
See what students at each achievement level are likely to know and can do.
-  **Questions Tool >**  
Search, sort, and print sample NAEP questions.
-  **State Comparisons >**  
Compare state performance by various demographic groups.
-  **State Profiles >**  
See NAEP performance results and student demographics for each state.
-  **Test Yourself >**  
Try out actual questions administered to students in the NAEP assessments.

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#### Module Summary

- This module has provided you with an introduction to NAEP and described the study's:
  - Design
  - Target population and sample design
  - Assessment components
  - Reporting
- Highlighted the topics for which data are available for analysis

**Introduction to the National Assessment of Educational Progress (NAEP)****Slide 31 of 31****Module Resources**

- [National Assessment of Educational Progress \(NAEP\)](#)
- [The Nation's Report Card](#)
- [NAEP contractors](#)
- [National Assessment Governing Board \(NAGB\)](#)
- [Main NAEP](#)
- [Main NAEP – State Assessment](#)
- [Main NAEP – TUDA](#)
- [Long-Term Trend](#)
- [Testing](#)
- [Sampling](#)
- [NAEP Data Tools](#)