

## The Nation's Report Card and 12th Grade Academic Preparedness

July 22, 2013 | CCSSO Summer Meeting

### The Governing Board's Work on Preparedness: Underway for More Than a Decade

2002-04	2006	2006-08	2009	2010-12/2013-15
12th Grade Blue-Ribbon Panel Report	Contract With Achieve to Review NAEP in Terms of Preparedness	Report of Technical Panel on Validity Research	Board Approval of Validity Research Program	Research Studies and Development of Preparedness Report

**The Governing Board's approach: rigorous, comprehensive, and methodical in making NAEP a preparedness indicator**



## A Comprehensive Plan: More Than 30 Studies in Five Research Areas

Study Types	Questions
Content Comparison	Is the content of NAEP similar to relevant tests?
Statistical Relationships	How does performance on NAEP compare to performance on other relevant tests?
Judgmental Standard Setting	What is the point on the NAEP scale that experts judge as <i>just</i> “academically prepared”?
Survey of Postsecondary Institutions	What are the tests and cut-scores used for placement?
Benchmarking	How do selected reference groups perform on NAEP?

➤ Research Results Are Promising ◀

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## Academic Preparedness Definition for College

The knowledge and skills to **qualify for placement** into entry-level, credit-bearing college courses **without need for remediation** in math or reading

- ★ “**Preparedness**” versus “**readiness**” – NAEP measures *academic* proficiency
- ★ Qualify for placement
- ★ No assumption of success or completion
- ★ Placement vs. admissions
- ★ “Typical” student in “typical” college

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## Content Comparisons: College

### ACT, SAT, ACCUPLACER

- ★ NAEP content is similar to the ACT, SAT, and ACCUPLACER.
- ★ ACT, SAT, and ACCUPLACER content is generally covered by NAEP.
- ★ NAEP is generally broader.
- ★ NAEP differs in some ways:
  - Types of test questions
  - Cognitive rigor of test questions
  - Types of reading texts
  - Weighting and coverage of specific content in mathematics

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## Statistical Comparisons: College

### NAEP/SAT 2009

- ★ NAEP and SAT Mathematics = **.91** correlation
- ★ NAEP and SAT Reading = **.74** correlation
- ★ Proficient on NAEP  $\approx$  500 on SAT Reading and Math  $\approx$  College Board Readiness Benchmark

### NAEP High School Transcript Study 2005/2009

- ★ NAEP to ACT and SAT results confirm NAEP/SAT linking study

### Florida study confirms NAEP/SAT linking and HSTS

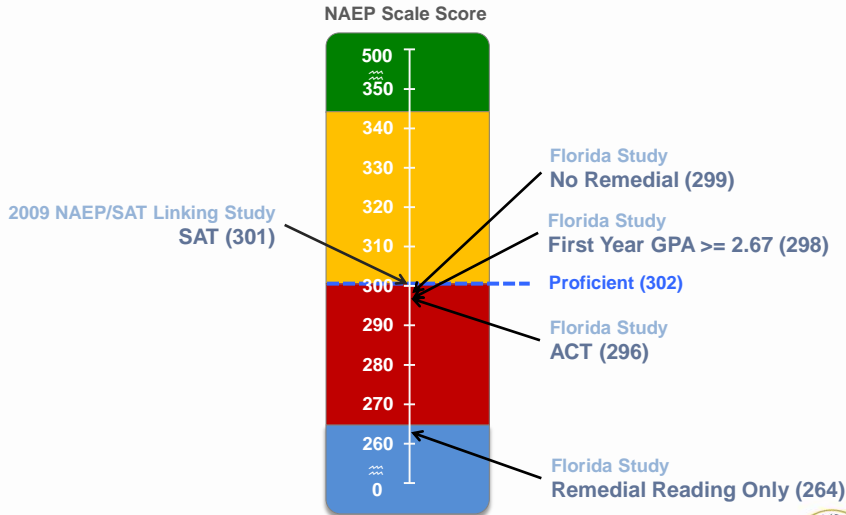
- ★ First-year college GPA
- ★ Placement into remedial/developmental
- ★ ACT and SAT college readiness benchmarks

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## NAEP 12th-Grade Preparedness Research: Reading

Average Scores and Inter-quartile Ranges for Selected Variables, SAT and ACT College Readiness Benchmarks From the 2009 NAEP/SAT Linking Study and 2009 Florida Longitudinal Study

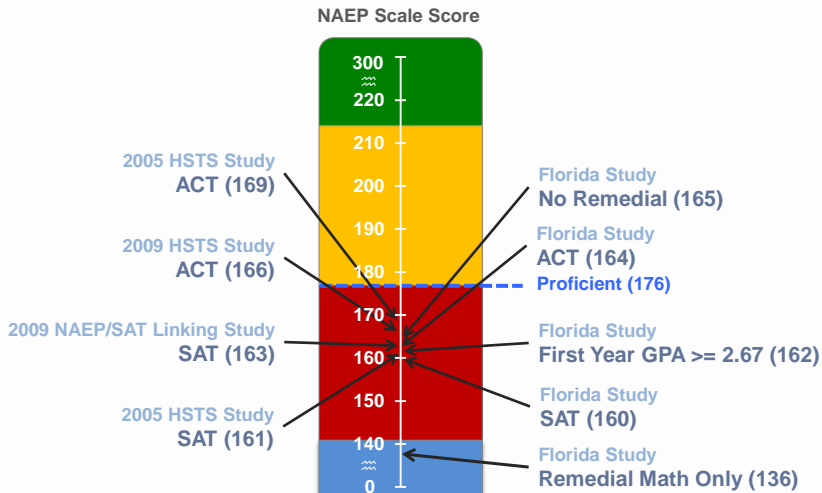


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## NAEP 12th-Grade Preparedness Research: Mathematics

Average Scores and Inter-quartile Ranges for Selected Variables, SAT and ACT College Readiness Benchmarks From the 2009 NAEP/SAT Linking Study, 2005 High School Transcript Study, 2009 High School Transcript Study, and 2009 Florida Longitudinal Study



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## Academic Preparedness for College: Key Takeaways

- ★ Content comparisons confirm appropriateness of revised reading and mathematics frameworks
- ★ Statistical comparisons confirmatory and consistent across studies and years
- ★ Students scoring at or above *Proficient* likely to be academically prepared, but...
- ★ Results are different for reading and math in relation to *Proficient* and interpretations/implications for reporting need to be considered

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## Next Steps

- ★ Review findings with technical experts
- ★ Receive comments: symposium/other stakeholders
- ★ Governing Board consideration (August 2013 meeting) on reporting 12th-grade results in terms of preparedness
- ★ Planning research for 2013–2015:
  - ☞ SAT and ACT linking studies
  - ☞ State partners (Fla., Ill., Mass., Mich., Tenn.)
  - ☞ 8th grade EXPLORE (Ky., Tenn.)

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# The Nation's Report Card and 12th Grade Preparedness:

## *What the National Assessment of Educational Progress Can Tell Us About U.S. Students' Academic Preparedness*

Grade 12 is a critical transition point for American students. After graduates leave high school, they may enter college, training, or work, but many find their next steps difficult, as measured by high college remediation and dropout rates, and unemployment data.

For the past decade, the National Assessment Governing Board has worked to transform the 12th-grade National Assessment of Educational Progress (NAEP) into an indicator of academic preparedness for college and job training.

Indicators of many kinds are used to monitor key aspects of national life and inform public policy. These include economic indicators (e.g., gross domestic product), health indicators (e.g., cancer rates), and demographic indicators (e.g., population trends by race/ethnicity and gender).

The Governing Board believes that NAEP reporting on the academic preparedness of 12th-grade students would serve as a valuable indicator of the human capital potential of rising generations of citizens, a nation's greatest resource.

**Results of these studies are available in a technical report at**  
[www.nagb.org/what-we-do/preparedness-research.html](http://www.nagb.org/what-we-do/preparedness-research.html)

### At the link, you'll find five types of research:

Is the content of NAEP similar to other relevant tests?

**CONTENT ALIGNMENT**

How does performance on NAEP relate to other outcomes?

**STATISTICAL RELATIONSHIPS**

What tests and cut scores are used for entry-level college course placement?

**HIGHER ED SURVEY**

Which NAEP test scores represent college preparedness? Job training preparedness?

**JUDGMENTAL STANDARD SETTING**

How do groups of interest perform on NAEP?

**BENCHMARKING**

### Find Out More!

For background on the research studies and results, please visit

[www.nagb.org/what-we-do/commission/researchandresources.html](http://www.nagb.org/what-we-do/commission/researchandresources.html)