



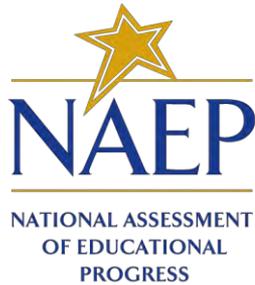
NAEP
12th GRADE
PREPAREDNESS
COMMISSION

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

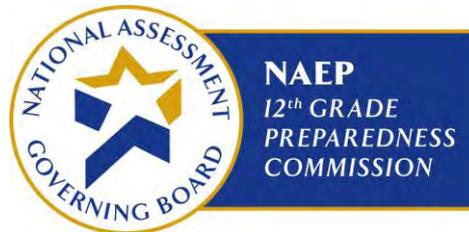
April 18, 2012 Tallahassee, Florida



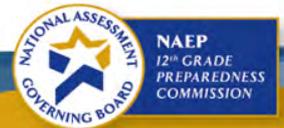
- An independent, non-partisan board
- Sets policy for and oversees NAEP



- The only continuing, nationally representative, state-comparable measure of student achievement



- Created to increase awareness about academic preparedness, as measured by NAEP



What is NAEP?

NAEP: Gold Standard in Assessing Achievement

Assesses what students know and can do:

SUBJECTS

Reading, Mathematics, Writing,
Science, U.S. History, Civics,
Geography, Economics, the Arts,
Technology and Engineering Literacy,
Foreign Language

GRADES

4, 8, and 12

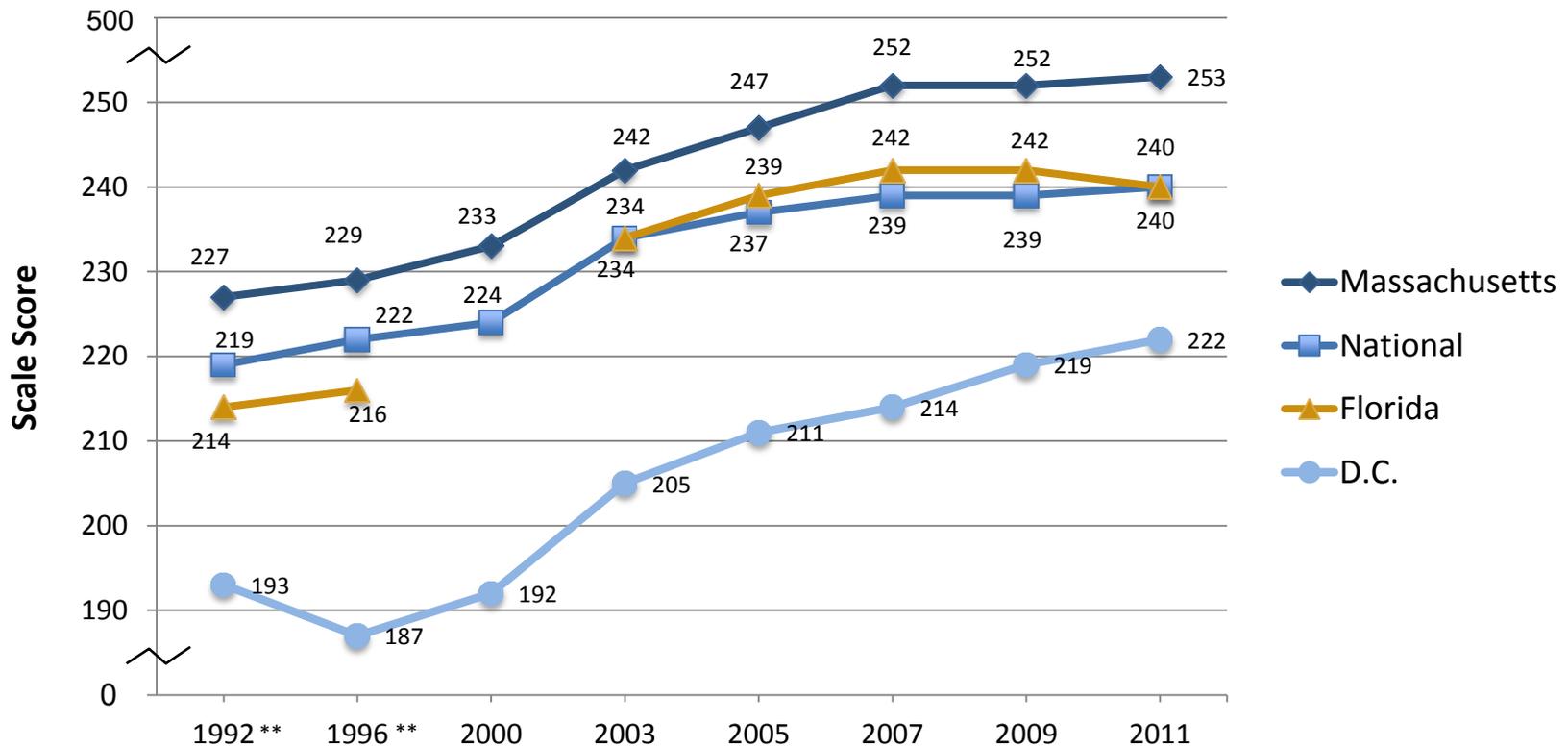
RESULTS

Student Achievement Data for

- Nation
- States
- 21 Urban Districts (Miami-Dade, Hillsborough County)

NAEP Provides Florida with Data in Comparison to the Nation and Other States

Florida: Grade 4 Mathematics Scores

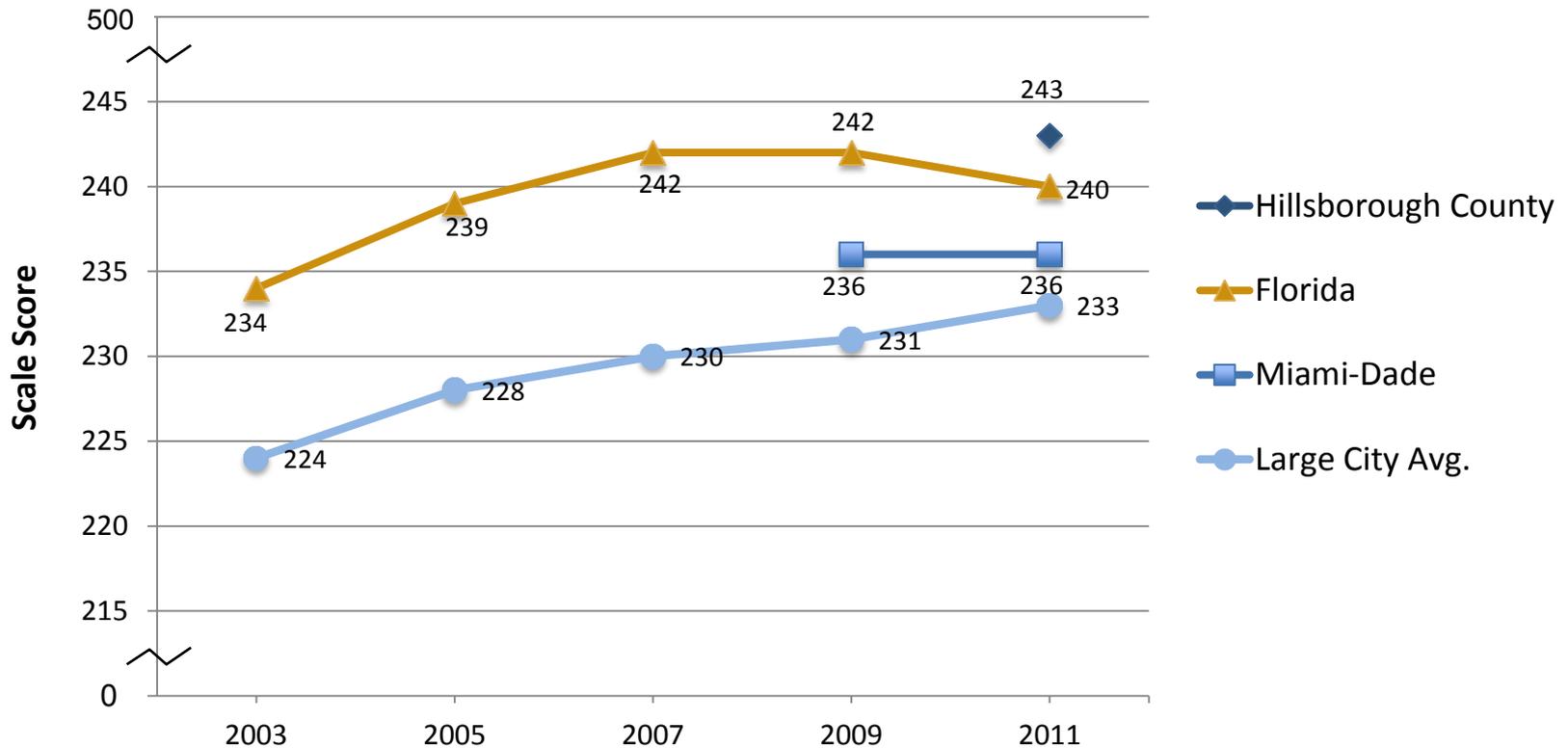


** Accommodations were not permitted.

Source: National Center for Education Statistics, 2011

NAEP Allows Comparison Between Urban Districts Within Florida and Across the Nation

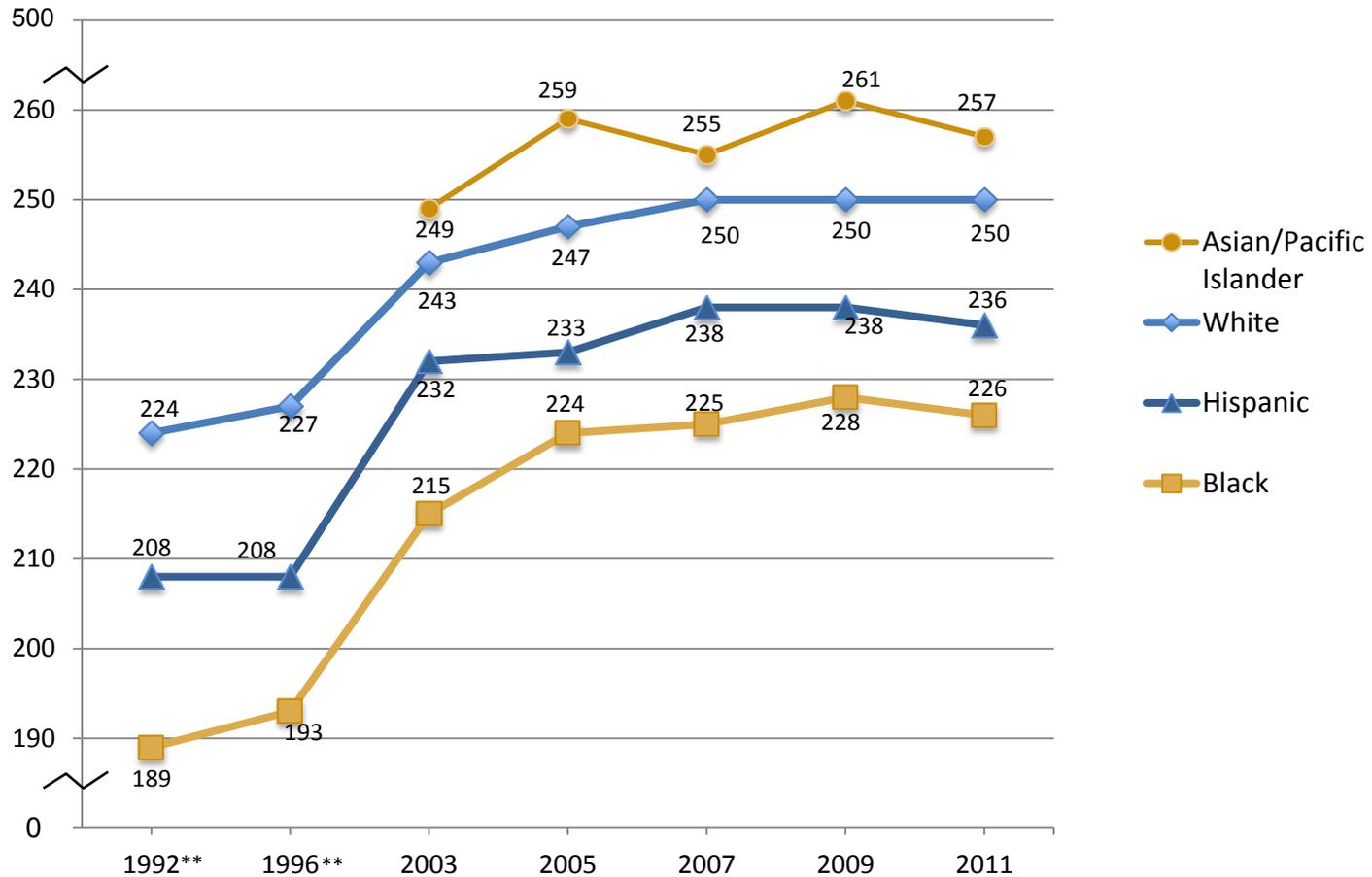
Florida: Grade 4 Mathematics Scores



Source: National Center for Education Statistics, 2011

NAEP Reports on Student Achievement Gaps

Florida: Grade 4 Mathematics Scores by Race/Ethnicity



** Accommodations were not permitted.

Source: National Center for Education Statistics, 2011



NAEP Provides Unique Benefits to States

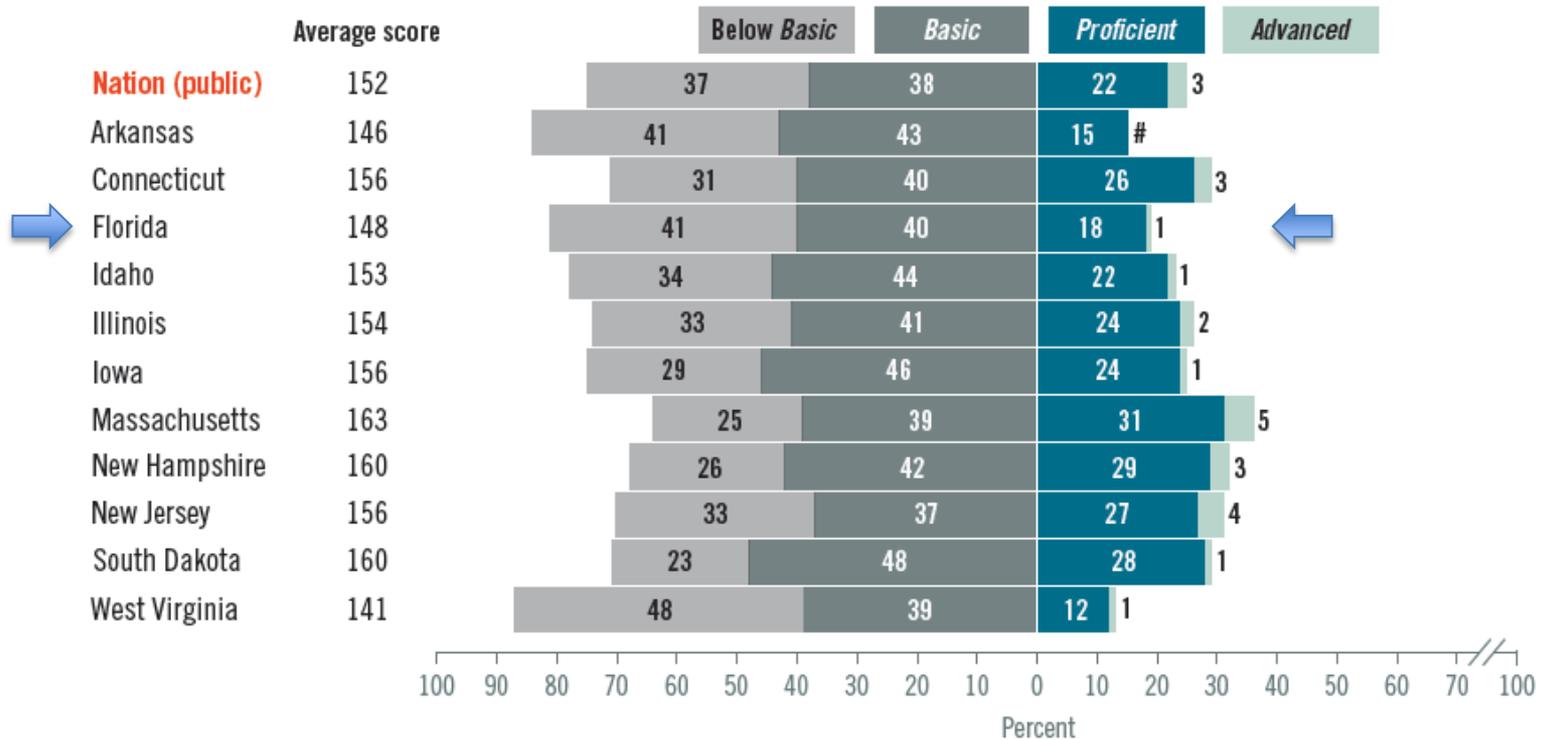
- ★ Comparisons across states
- ★ Progress over time
- ★ Rich information, no cost to the state
- ★ Minimal burden on schools
- ★ No test preparation

NAEP Provides Unique Benefits to States

- ★ NAEP will put Florida's state results in international context.
- ★ **NAEP is the only source of national and state-comparable student achievement data at the 12th grade.**
 - 11 state pilot at 12th grade in 2009 – reading and math
 - Administered again in 2013

NAEP: Only Source of 12th Grade Comparisons

Grade 12 Mathematics Scale Scores and Achievement Levels



Rounds to zero.

NOTE: Eleven states participated in the assessment and met the reporting criteria. Detail may not sum to totals because of rounding.

Source: National Center for Education Statistics, 2009



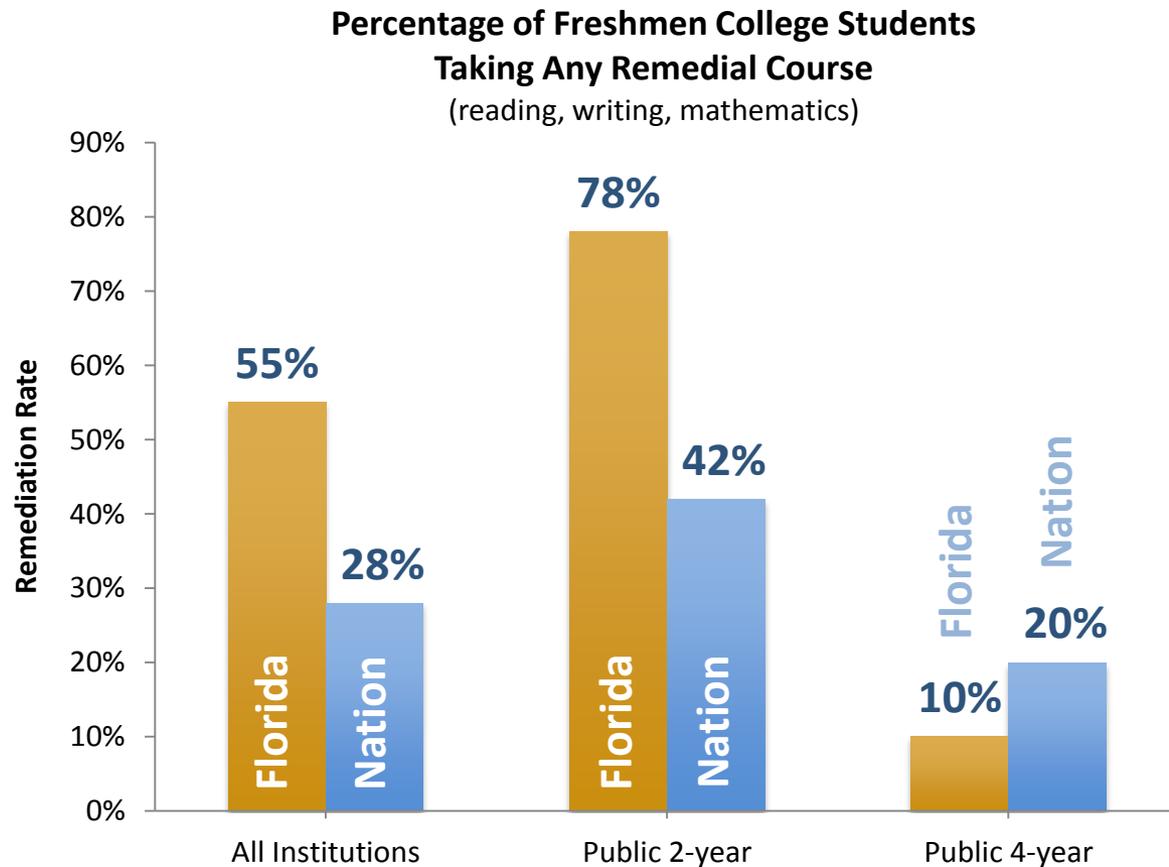
NAEP and 12th Grade Academic Preparedness

National Blue-Ribbon Panel: Recommended NAEP Report on 12th Grade Preparedness

The panel's rationale:

- ★ Grade 12: transition to postsecondary education and training.
- ★ The nation needs an indicator of 12th grade student preparedness.
- ★ NAEP—trusted for quality and integrity.
- ★ NAEP—uniquely positioned to serve as preparedness indicator.

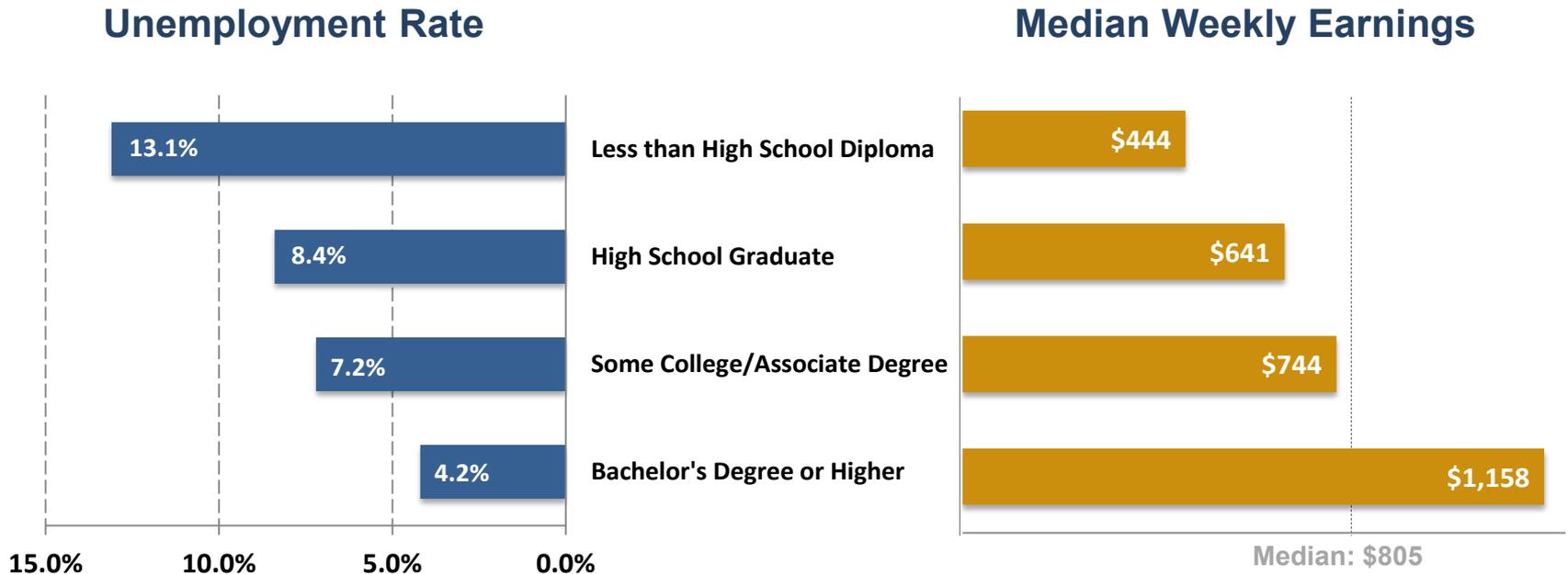
Many High School Graduates Are Not Prepared for Entry-Level College Courses



Source: FL OPPAGA, 2006; NCES, 2004

- ★ **The costs of remediation are high and far-reaching.**
- ★ **A high school diploma and academic preparedness are not necessarily the same.**

Education Level is Related to Employment and Earnings



Source: U.S. Department of Labor, Bureau of Labor Statistics, January 2012

Our Global Competitiveness Hinges on Our Graduates' Academic Preparedness

“Because other nations have...the competitive advantage of a low wage structure, the United States must compete by optimizing its knowledge-based resources, particularly in science and technology....”

– National Academy of Sciences, “Rising Above the Gathering Storm”

Changes in demography & labor market



**Need to close gaps and achieve
high levels of academic preparedness**

What We Know, What We Don't Know

What We Know



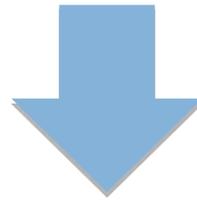
On a daily basis we know:

- ★ The changes on the stock market
- ★ The number of bushels of wheat produced
- ★ The price of gold

What We Don't Know:

Are the nation's 12th graders well-prepared academically for college and job training?

The U.S. has no common definition or measure of 12th grade preparedness



Governing Board program of research:

Transform 12th grade NAEP into indicator of preparedness for postsecondary education and training

The Governing Board's Preparedness Research

The Governing Board's Work on Preparedness: Underway for Nearly a Decade



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

Working Definition of Preparedness

- ★ The knowledge and skills needed to **qualify for placement** into entry-level college-credit courses or job training, **without the need for remediation** in math or reading.
 - Assumption: 12th graders need training beyond high school to qualify for a career
 - **“Preparedness”** versus **“Readiness”** – NAEP measures *academic* proficiency
 - Academic skills for college and for job training not necessarily the same

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**

Content Comparisons: ACT, SAT, ACCUPLACER

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/coverage of specific content in mathematics

Content Comparisons: WorkKeys

Job Training: WorkKeys

- ★ Some NAEP content is similar to WorkKeys
- ★ WorkKeys measures some content that NAEP does not.
- ★ NAEP is broader.
- ★ WorkKeys Applied Mathematics and Reading for Information focus on the application of foundational skills in workplace situations and NAEP does not.
- ★ NAEP does not have workplace situations as its primary focus.

Statistical Linking

- ★ NAEP and SAT math = **.91** correlation
- ★ NAEP and SAT reading = **.74** correlation
- ★ Proficient on NAEP = 500 on SAT Reading and Math = College Board Readiness Benchmark
- ★ **Florida study:** 12th grade state NAEP and...
 - ★ ACT, SAT, and ACCUPLACER
 - ★ Employment and salary data
 - ★ Course grades in college and job training programs
- ★ Florida results are confirming of NAEP/SAT results

Standard Setting:

12 studies in five job training programs and college placement

★ Job training

- ★ Automotive Master Mechanic
- ★ Computer Support Specialist
- ★ HVAC Technician
- ★ Licensed Practical Nurse
- ★ Pharmacy Technician

★ Criteria

- ★ Significant numbers, stable or growing positions
- ★ Range of occupations, civilian/military comparability
- ★ Training beyond high school, not bachelor's degree
- ★ Range of reading/math skills
- ★ Compensation with growth potential
- ★ Familiar to public

Other Research

★ Job Training Course Content Analysis

- ★ Review of course syllabi and textbooks for reading and math demands

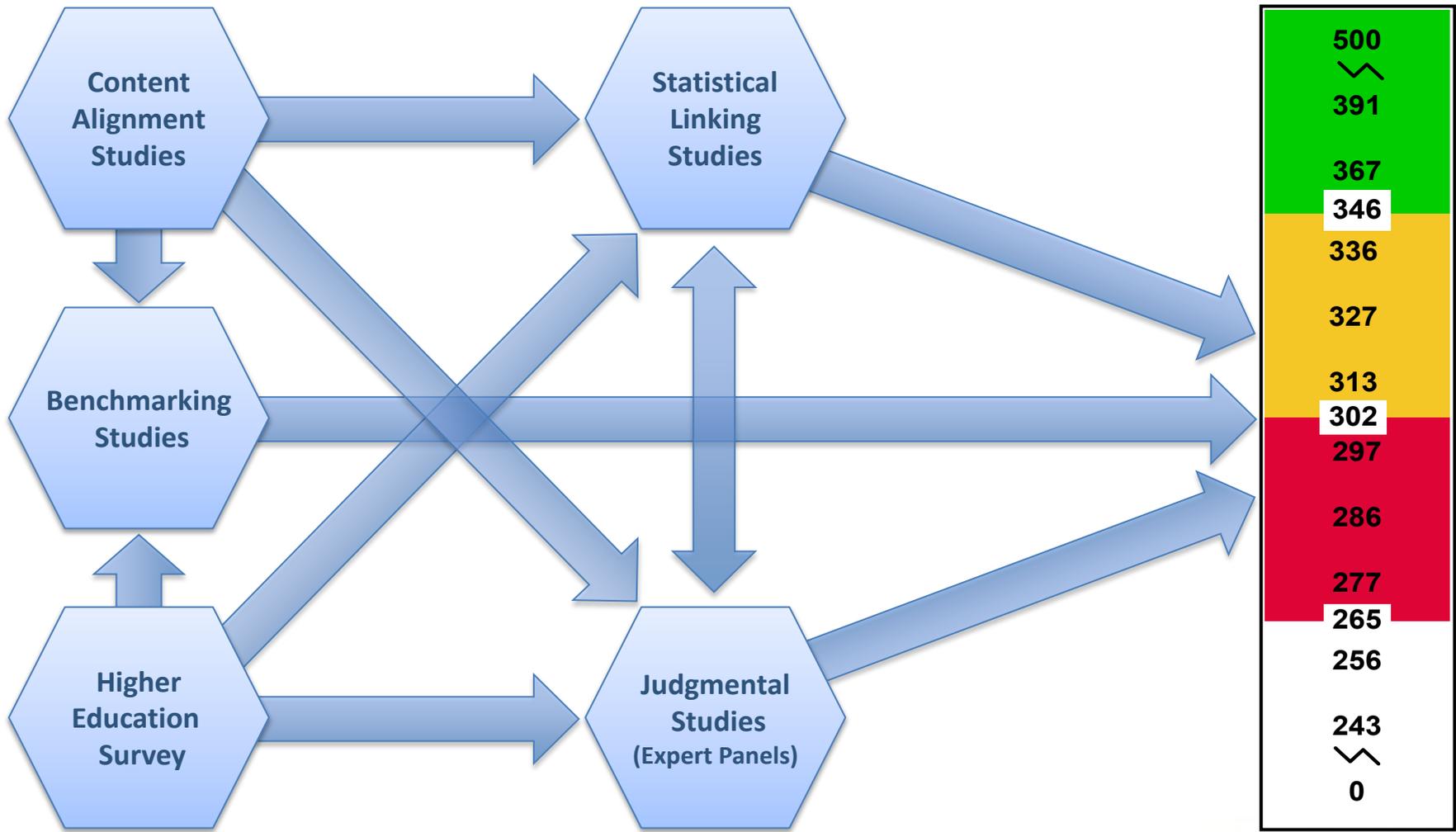
★ Benchmarking

- ★ Texas postsecondary pilot study
- ★ Seeking partners for collaboration—job training, military, higher ed., etc.

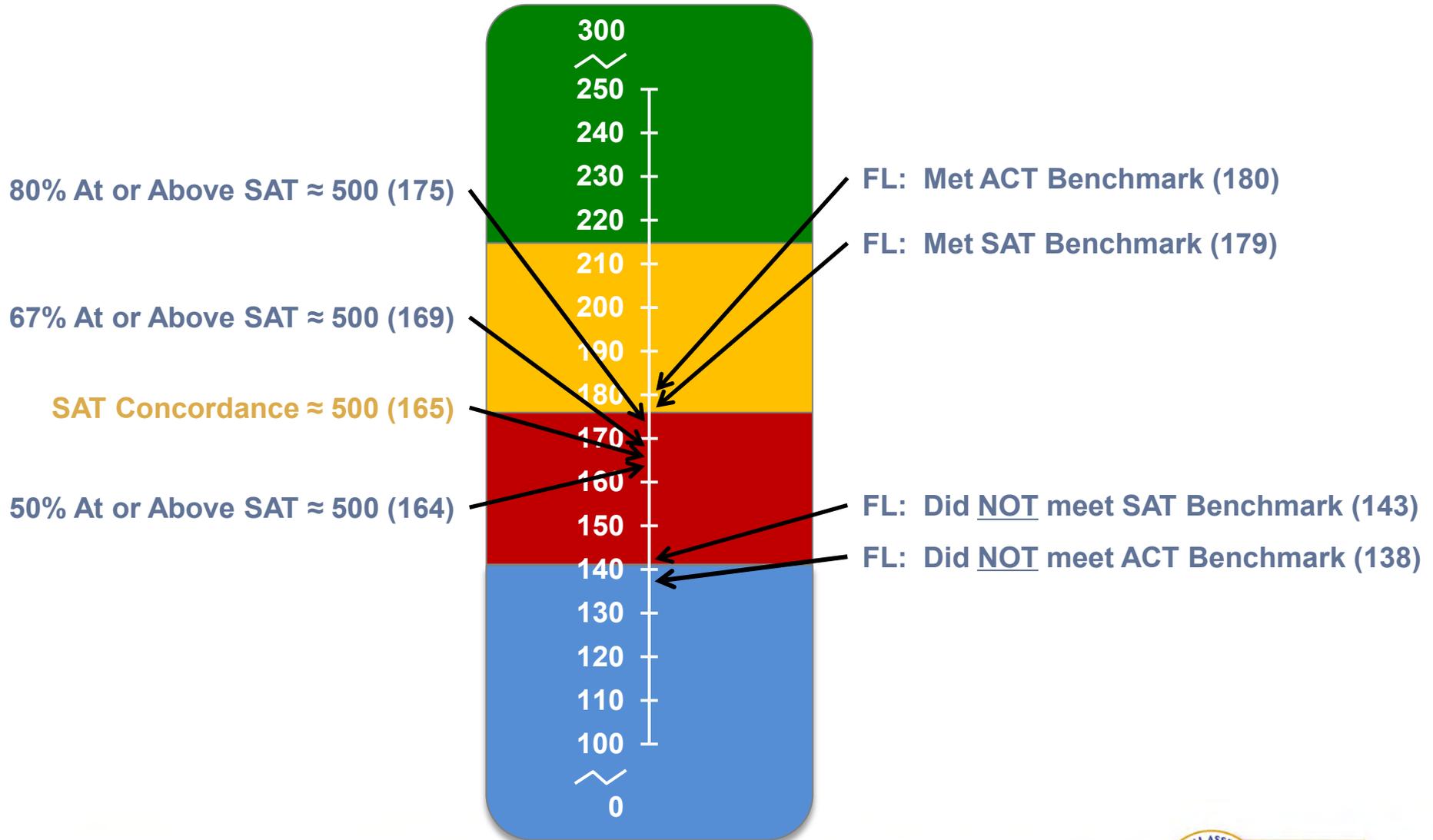
★ Higher Education Survey

- ★ Tests and cut-scores used to place freshmen

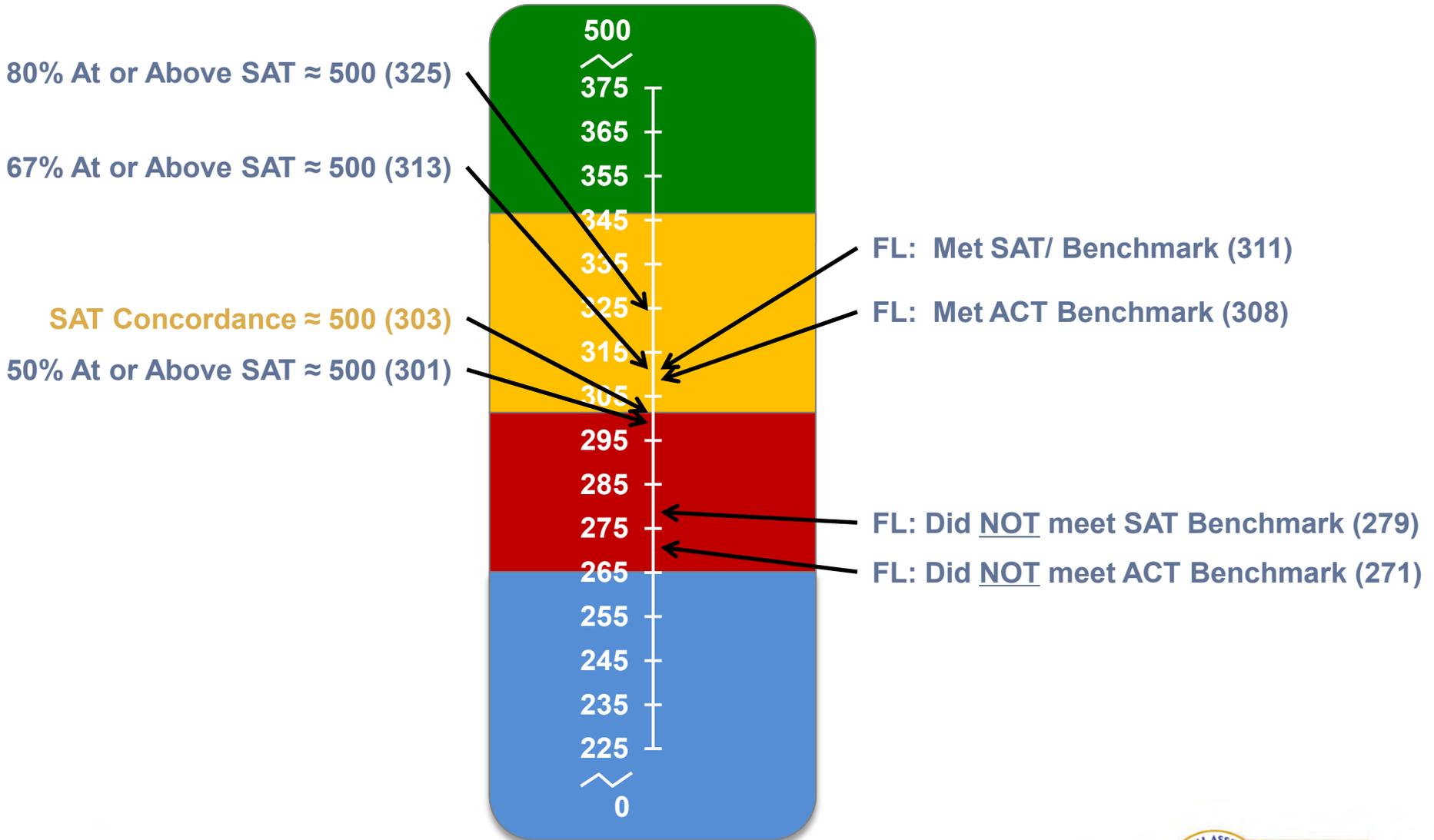
Study Interrelationships



Mathematics Preparedness Findings



Reading Preparedness Findings



Next Steps

- ★ Review findings with technical experts.
- ★ Develop Preparedness Reports for 2012.
 - Public report (print and electronic)
 - Technical report (electronic only)
- ★ Plan research for 2013 NAEP.

Conclusions

- ★ Governing Board's research is
 - Rigorous, comprehensive
 - Methodologically sound, well documented
- ★ Cautious optimism – NAEP as preparedness indicator.
- ★ NAEP content may not be well aligned with job training requirements.

Panel Discussion

- ★ Potential relevance and use of this research in Florida?
 - NAEP as preparedness indicator
 - The NAEP research
 - The research results
- ★ Additional research to consider?
- ★ Potential partners for additional research?

What is the relevance and utility of the NAEP 12th Grade Academic Preparedness Initiative to Florida?

- NAEP as an indicator of academic preparedness
- The NAEP research
- The research results

What additional research should be considered in connection with NAEP 12th grade assessments in reading and mathematics to be conducted in 2013?

Who are potential research partners?

Additional Research/Partners

- ★ Follow up at college level with PERT
- ★ Follow up with analysis of big-picture assessment universe
- ★ Alignment of NAEP w/ Common Core
- ★ Pre-service competencies: teacher skills to teach NAEP-aligned standards
- ★ Universities are key partners
- ★ Consider additional formats for NAEP tests – e.g. Computer-based.
- ★ Emphasize low-stakes nature to alleviate testing stress. Change perception of NAEP as “test”
- ★ Incentives vs. consequences for students. Students more apt to be motivated by incentives.
- ★ Formal discussion between high schools and postsecondary about ways to align results
- ★ How did graduates fare at postsecondary institutions? Information is not used – Why? Why are postsecondary institutions not using 12th grade data?

Additional Research/Partners

- ★ Review of curriculum in interest of alignment with standards. (Students with credentials still end up in remediation)
- ★ NAEP 12th grade writing component would be highly valuable.

For More Information...

- ★ National Assessment Governing Board:
www.nagb.org
- ★ NAEP 12th Grade Preparedness Commission:
www.nagb.org/commission
- ★ Preparedness Research and Resources:
www.nagb.org/commission/researchandresources