NAEP
12th GRADE
PREPAREDNESS
COMMISSION

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

November 18, 2011 Nashville, Tennessee

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

NAEP
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

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

NAEP 12th GRADE PREPAREDNESS COMMISSION

- 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	GRADES
Reading, Mathematics, Writing, Science, U.S. History, Civics, Geography, Economics, the Arts, Technology and Engineering Literacy, Foreign Language	4, 8, and 12

RESULTS

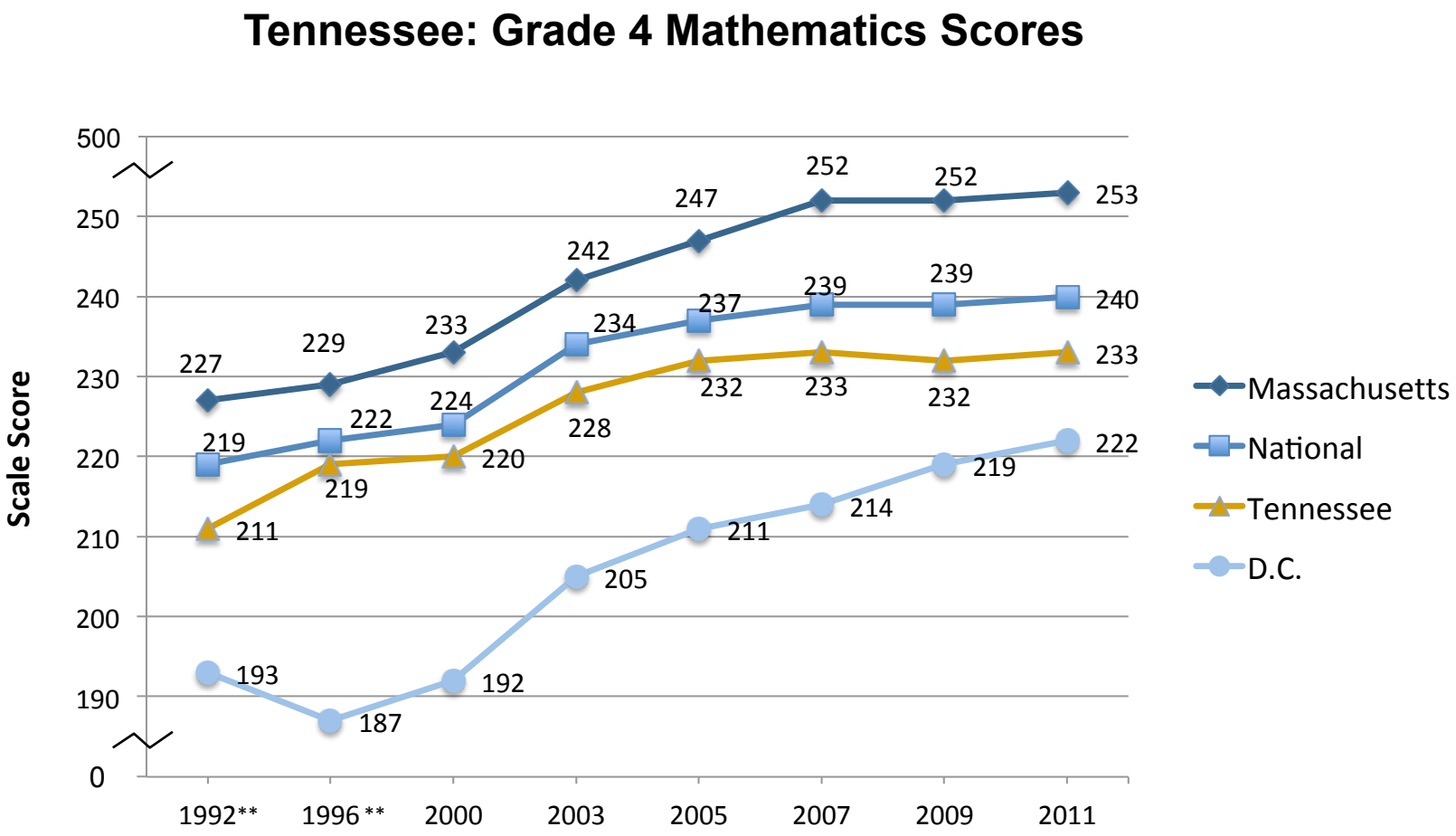
Student Achievement Data for the

- Nation

- States

- 21 Urban Districts

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



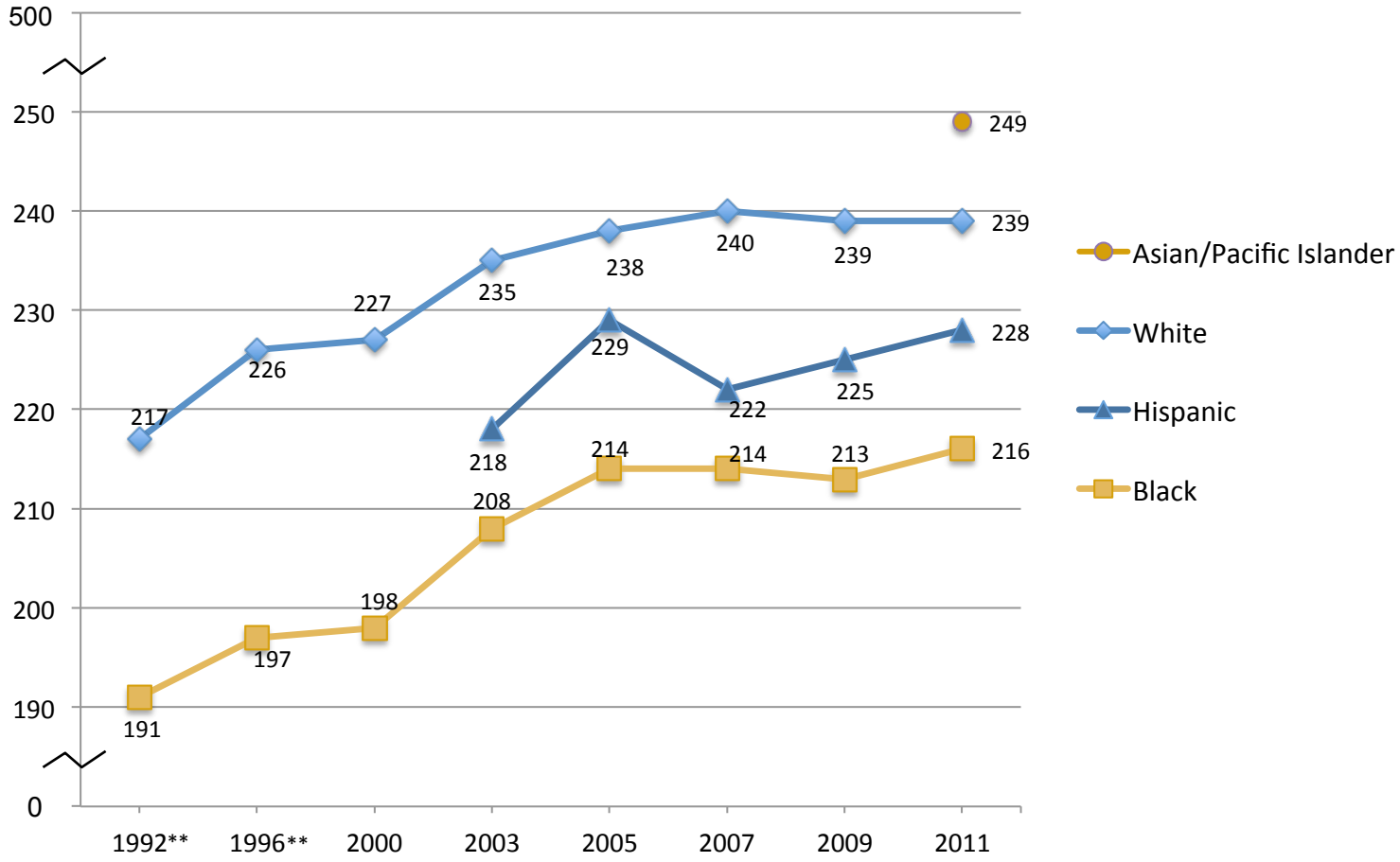
** *Accommodations were not permitted.*

Source: National Center for Education Statistics, 2011

NAEP 12th GRADE PREPAREDNESS COMMISSION

NAEP Reports on Student Achievement Gaps

Tennessee: Grade 4 Mathematics Scores by Race/Ethnicity



*** Accommodations were not permitted.*

Source: National Center for Education Statistics, 2011

NAEP 12th GRADE PREPAREDNESS COMMISSION
NATIONAL ASSESSMENT GOVERNING BOARD

NAEP Provides Unique Benefits to States

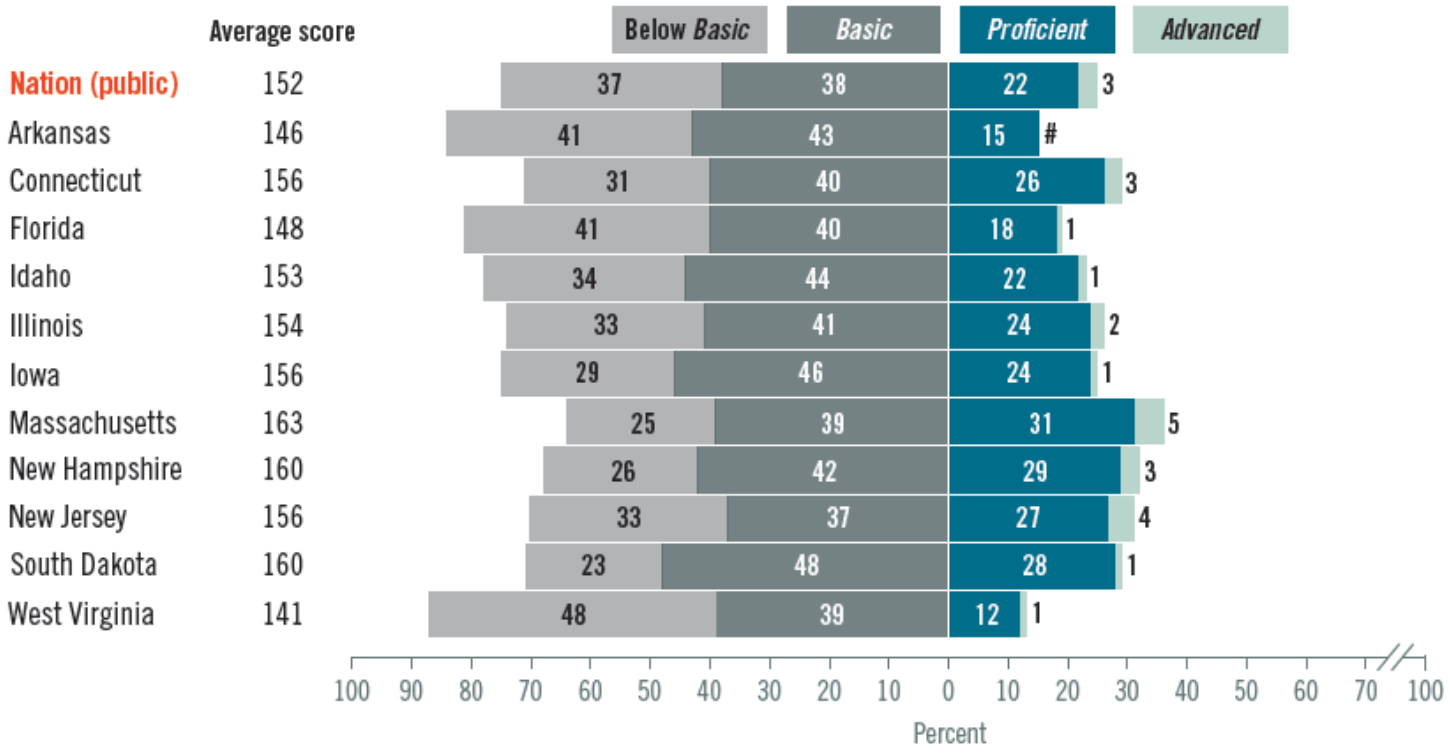
- ★Progress over time
- ★Rich information, no cost to the state
- ★Minimal burden on schools
- ★No test preparation

NAEP Provides Unique Benefits to States

- NAEP will put Tennessee's state results in international context.
- NAEP provides state-comparable achievement data for all states.
- **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 every two years beginning 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 12th GRADE PREPAREDNESS COMMISSION

NAEP and 12th Grade Academic Preparedness

National Blue-Ribbon Panel:

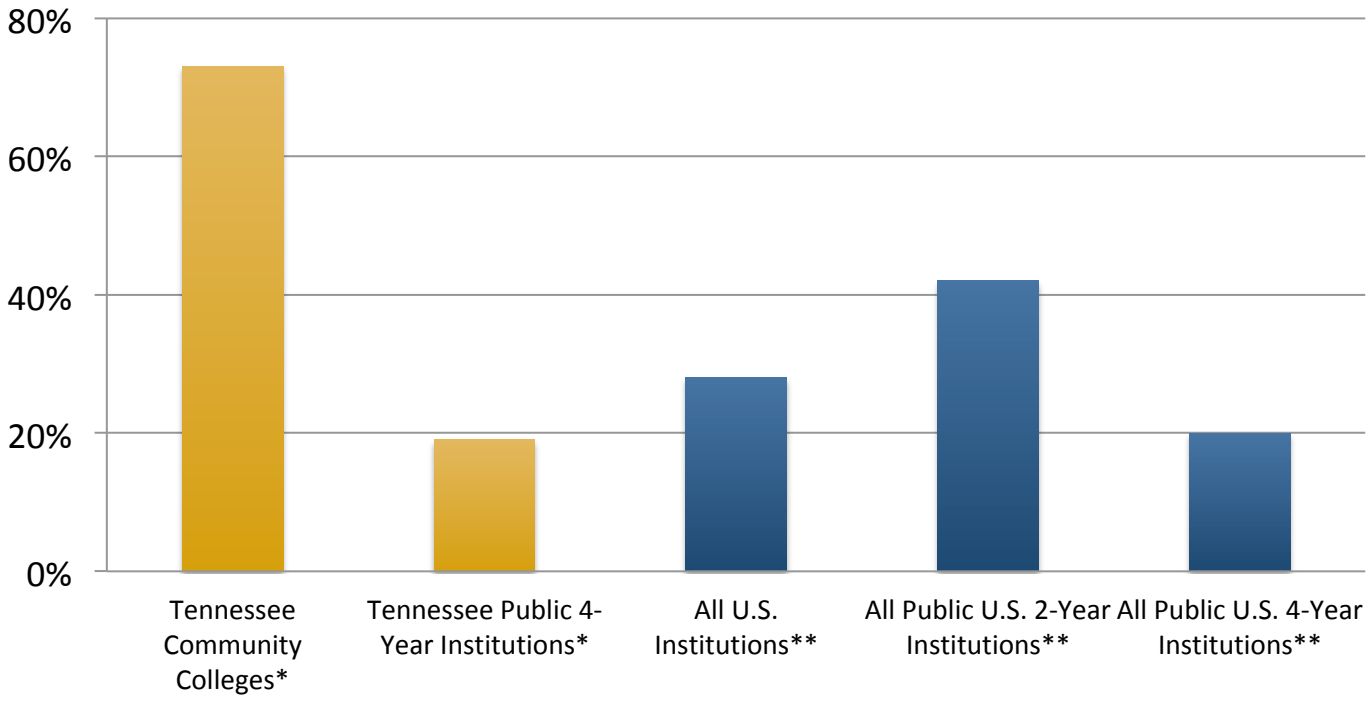
Recommended NAEP Report on 12th Grade Preparedness

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

Percentage of Freshman College Students Taking Any Remedial Course
(reading, writing, mathematics)



Source: *Tennessee Higher Education Commission, 2010; **NCES, 2004

- **The costs of remediation are high and far-reaching.**

- **A high school diploma and academic preparedness are not necessarily the same.**

Changes in demography & labor market

=

Need for 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?

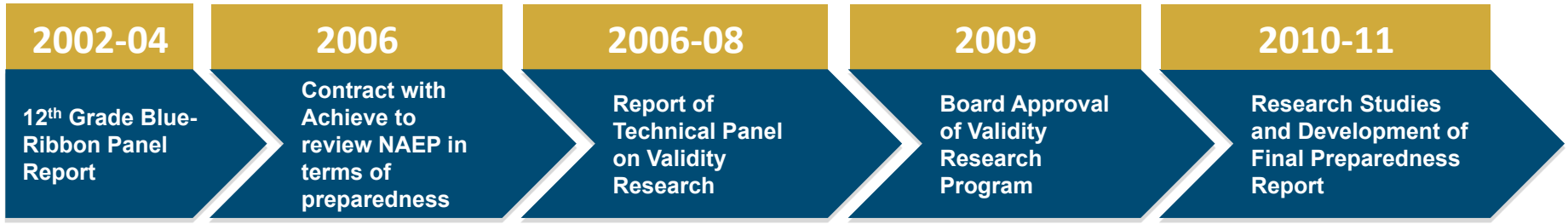
The U.S. has no common definition or measure of 12th grade preparedness

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

- ★ Content Comparison
- ★ Statistical Linking
- ★ Standard Setting
- ★ Benchmarking
- ★ Higher Education Survey

Early Research Results Are Promising

Content Comparison

- Significant overlap between NAEP and ACT, SAT, and other tests

- **ACT Study:**
  - All content in ACT reading and math assessments is included in NAEP
  - NAEP's content coverage is broader than ACT's

Statistical Linking

- NAEP and SAT math = about .90 correlation
- Proficient on NAEP = 500 on SAT Reading and Math = College Board Readiness Benchmark
- **Florida study**: 12th grade state NAEP and
  - ACT, ACCUPLACER, COMPASS, SAT, and WorkKeys
  - 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
  - Training beyond high school, not bachelor's degree
  - Range of reading/math skills
  - Compensation with growth potential
  - Familiar to public

Other Research Study Types

- **Job Training Course Content Analysis**

  Review of course syllabi and textbooks for reading and math demands

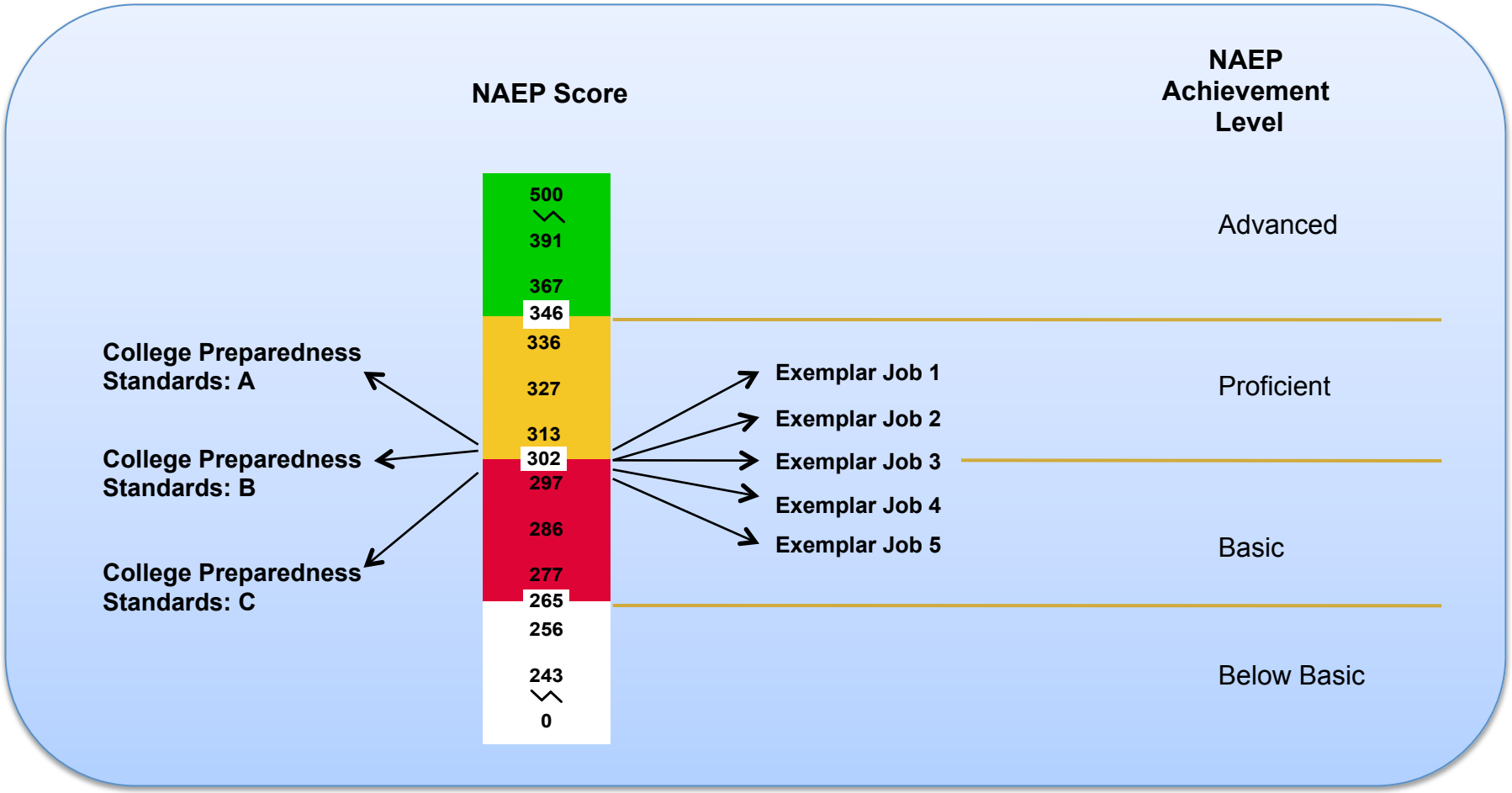
- **Benchmarking**

  Seeking partners for collaboration—job training, military, higher ed., etc.

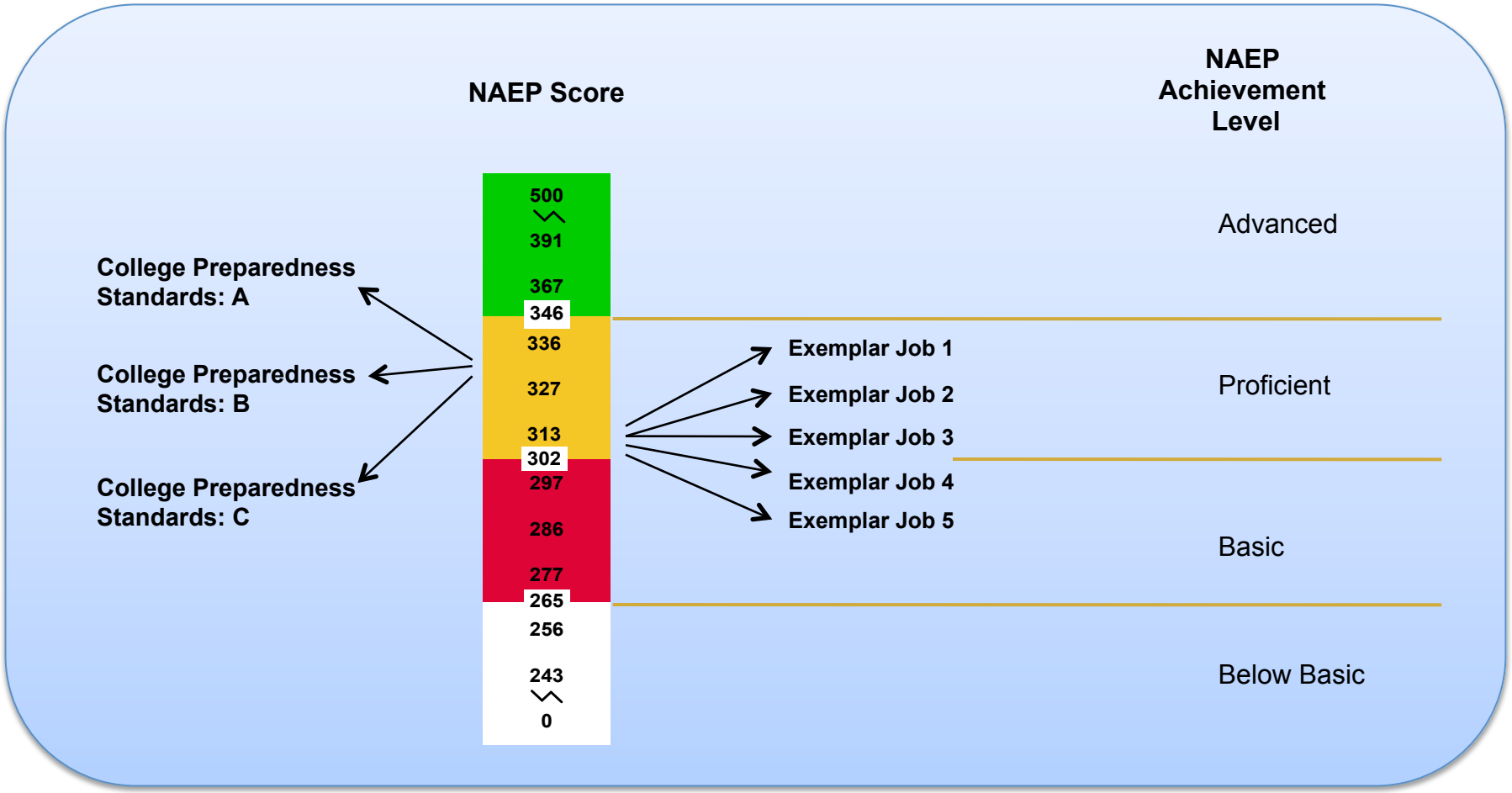
- **Higher Education Survey**

  Tests and cut-scores used to place freshmen

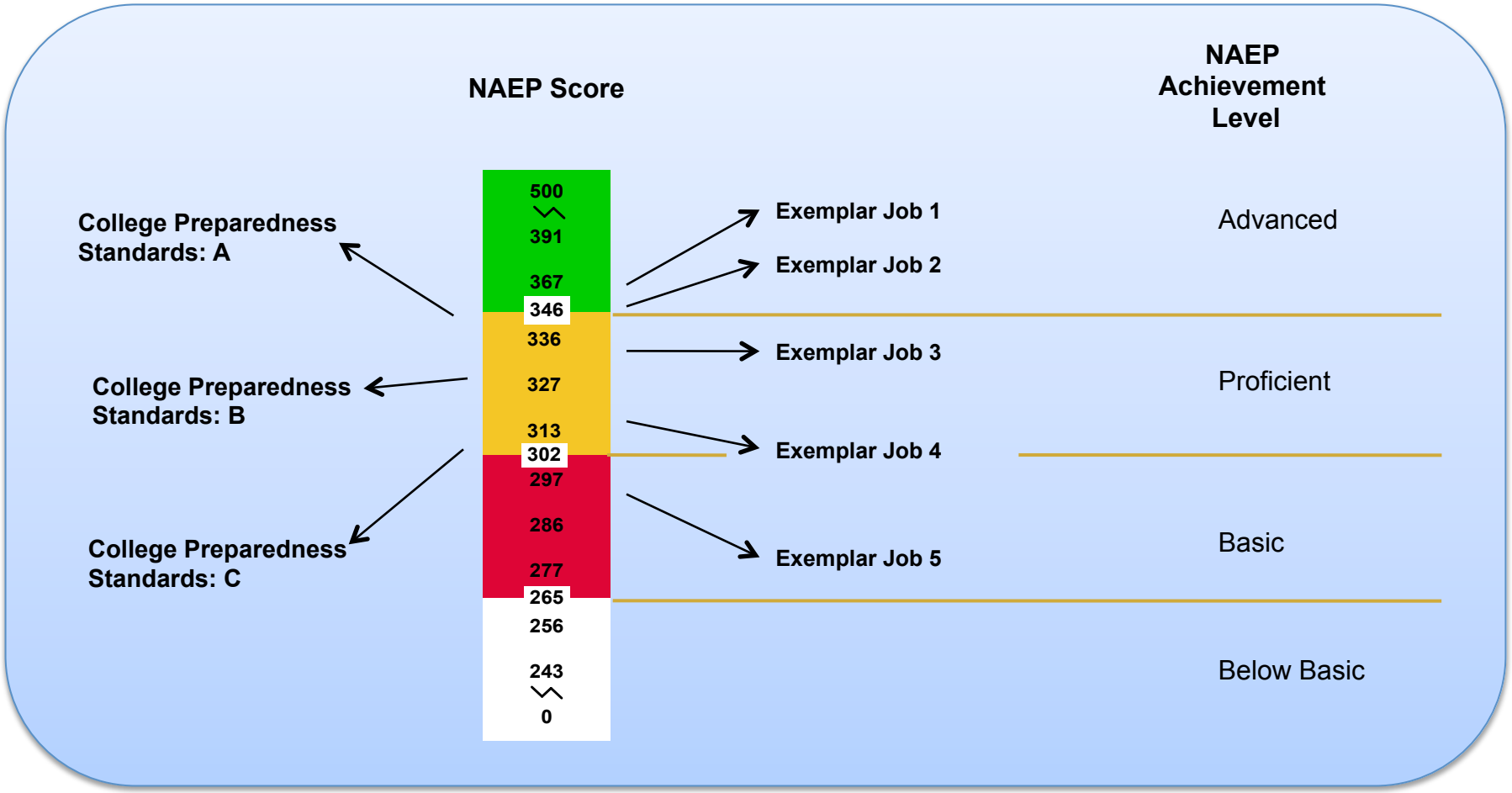
Scenario 1: Results Converge



Scenario 2: Results Converge but in Different Ranges on Scale



Scenario 3: Results Are Dispersed Across Scale



Implications

- Potential relevance and use of this research in Tennessee?
- Additional research to consider?
- Potential partners for additional research?
- Research to consider were Tennessee to volunteer for 12th grade NAEP at the state level in 2013?

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

- 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?

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