NAEP
12th GRADE
PREPAREDNESS
COMMISSION

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

October 24, 2011 Boston, Massachusetts

- 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

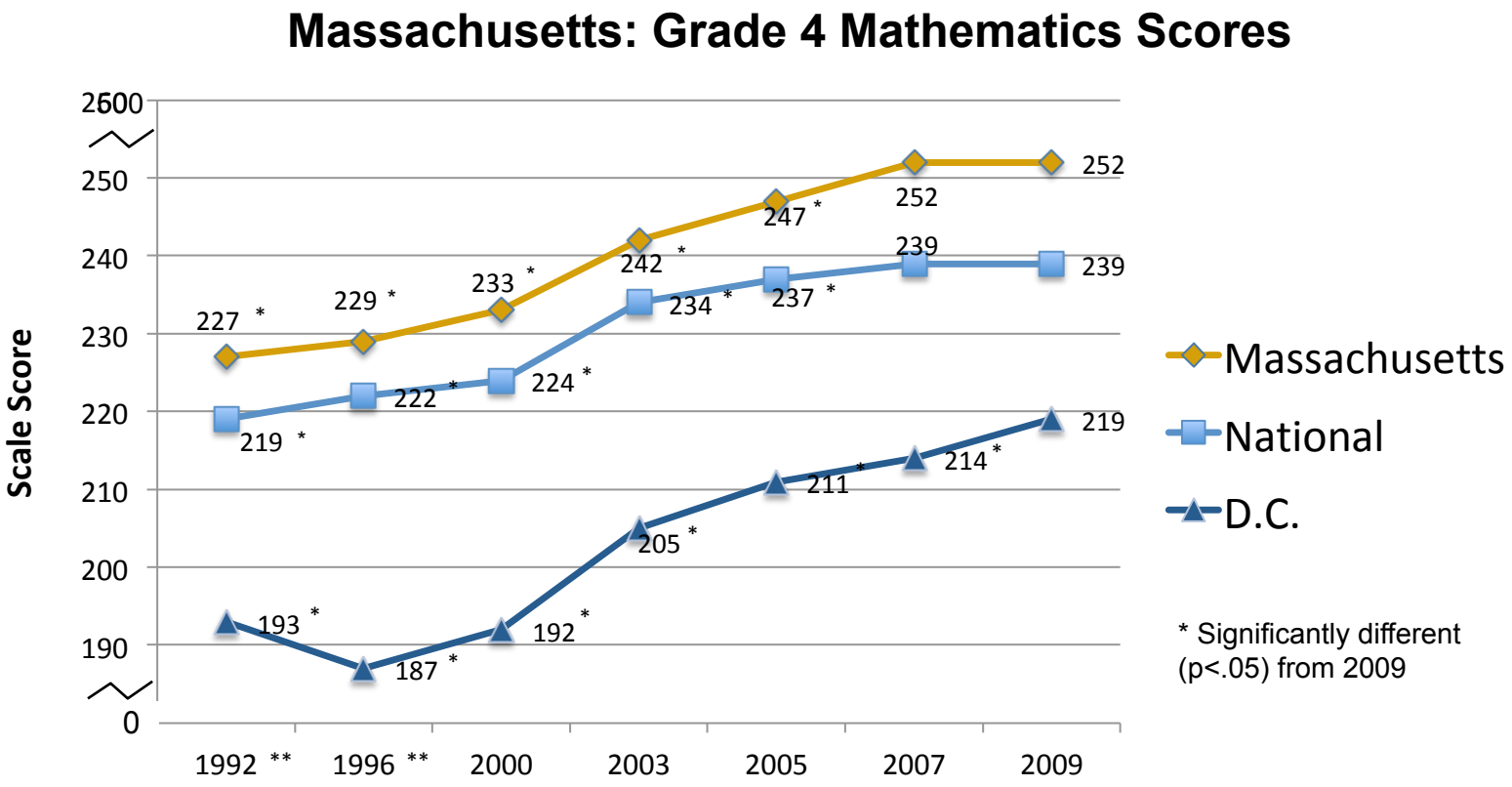
Student Achievement Data for the

- Nation

- States

- 21 Urban Districts (Boston)

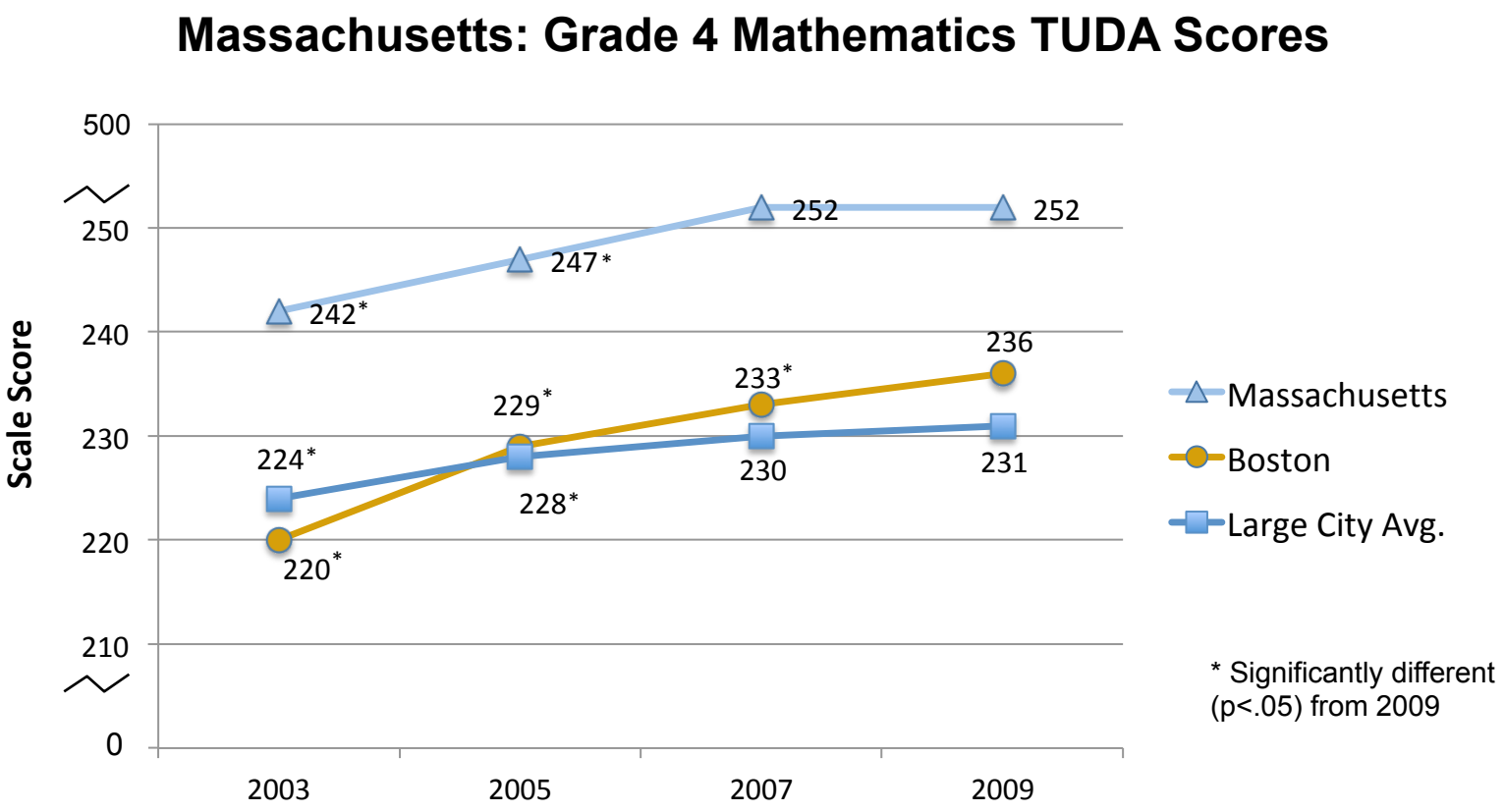
NAEP Provides Massachusetts with Data in Comparison to the Nation and Other States



*** Accommodations were not permitted.*

Source: National Center for Education Statistics, 2009

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

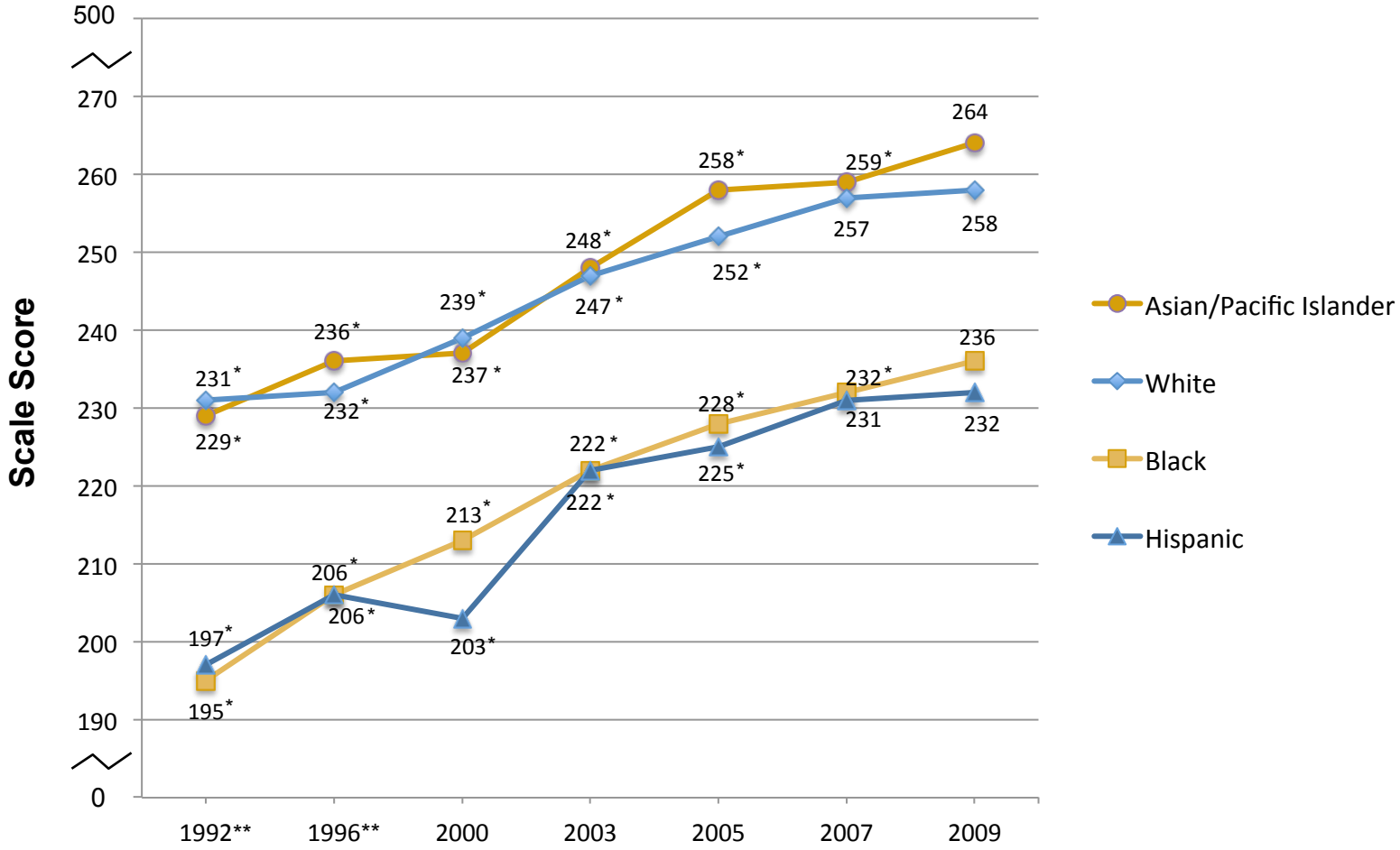


Source: National Center for Education Statistics, 2009

NAEP 12th GRADE PREPAREDNESS COMMISSION

NAEP Reports on Student Achievement Gaps

Massachusetts: Grade 4 Mathematics Scores by Race/Ethnicity



** *Accommodations were not permitted.*

* Significantly different (p<.05) from 2009

Source: National Center for Education Statistics, 2009

NAEP 12th GRADE PREPAREDNESS COMMISSION

NAEP Provides Unique Benefits to States

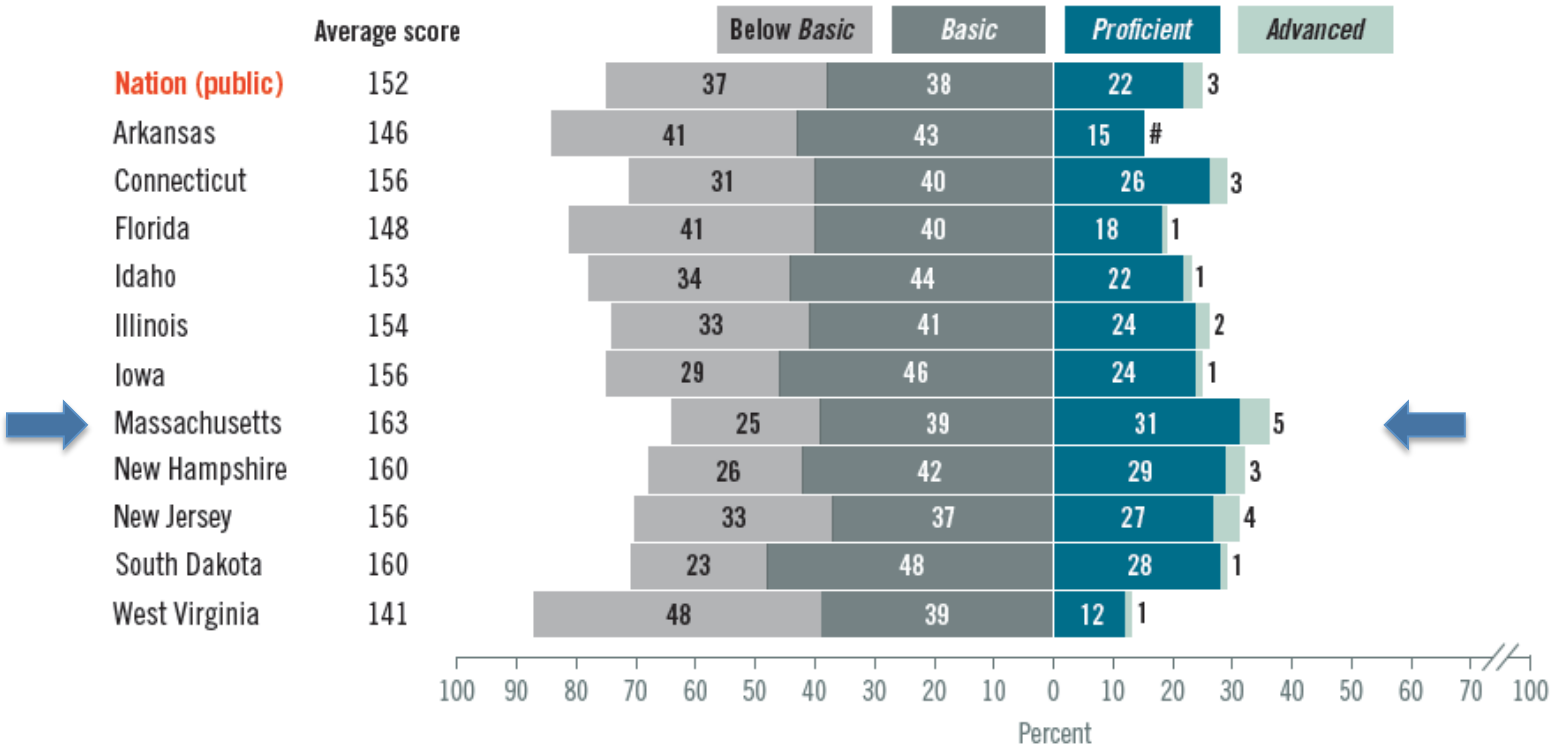
- ★Progress over time
- ★Rich information, no cost to the state
- ★Minimal burden on schools
- ★No test preparation

NAEP Provides Unique Benefits to States

- NAEP will put Massachusetts' 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

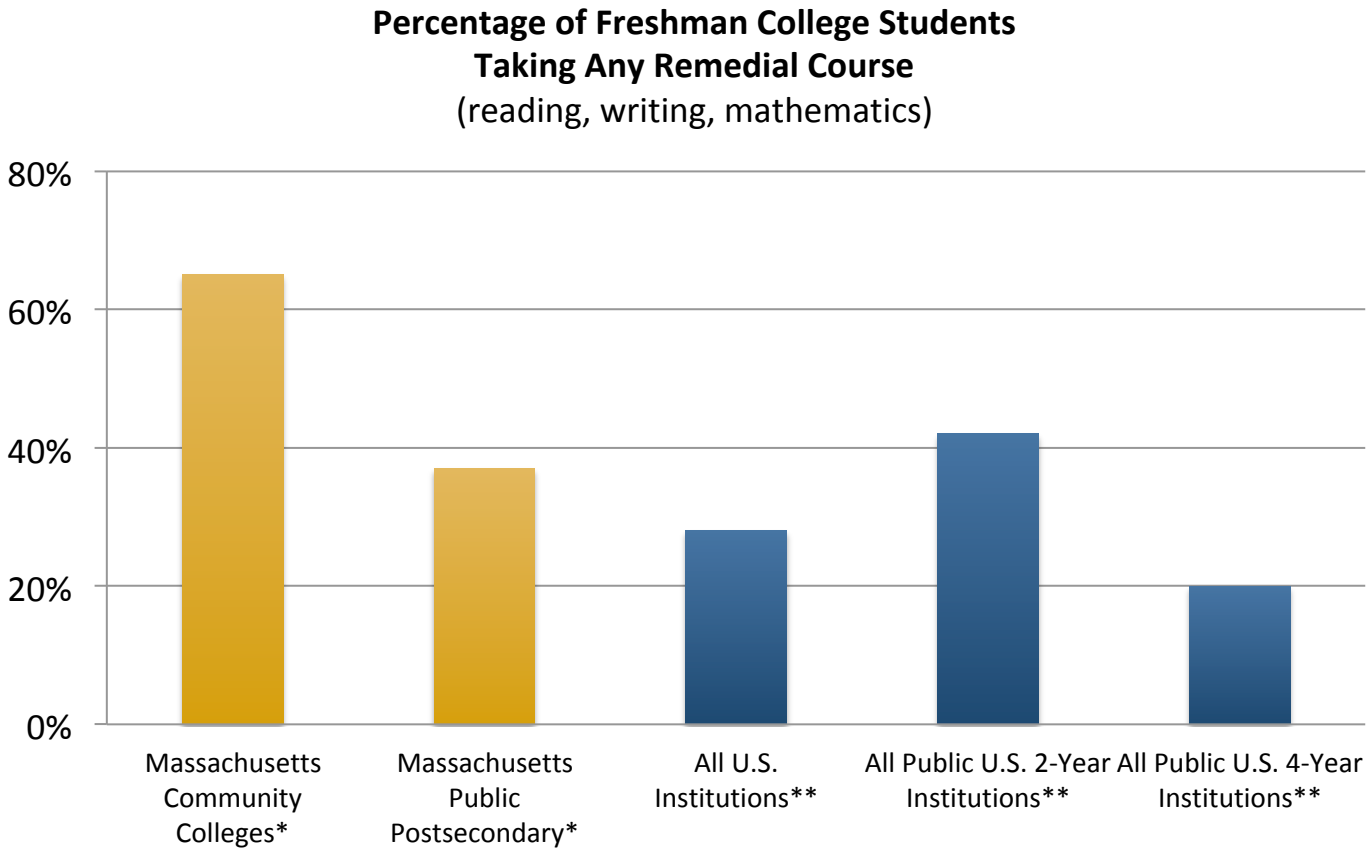
National Blue-Ribbon Panel:

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



Source: *Massachusetts DOE, 2008; **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?

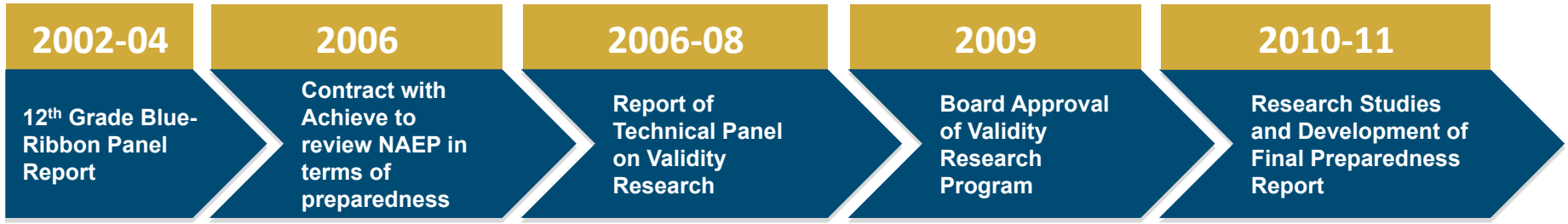
The U.S. has no common definition or measure of 12th grade preparedness

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

★ 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

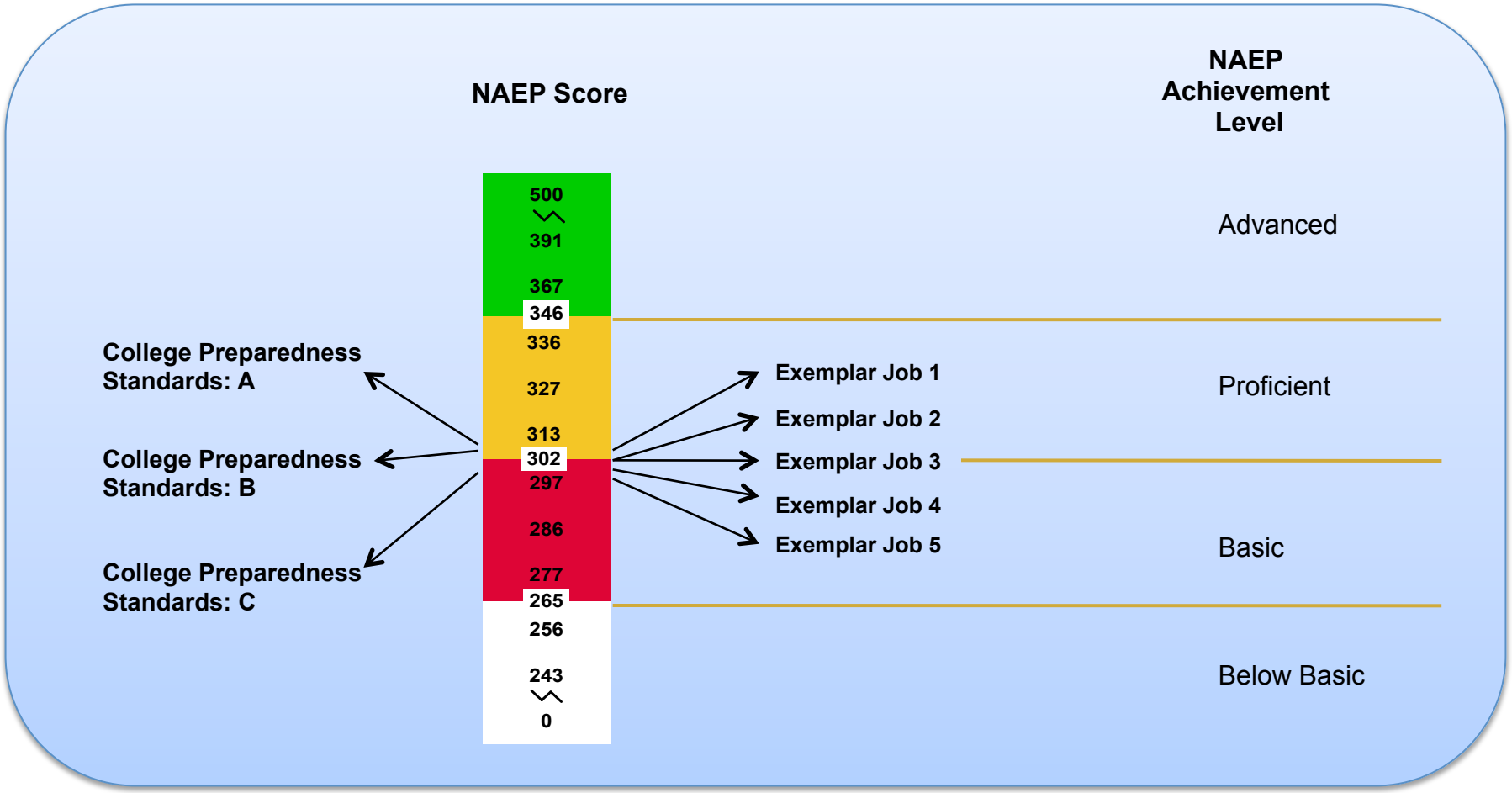
- **Benchmarking**

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

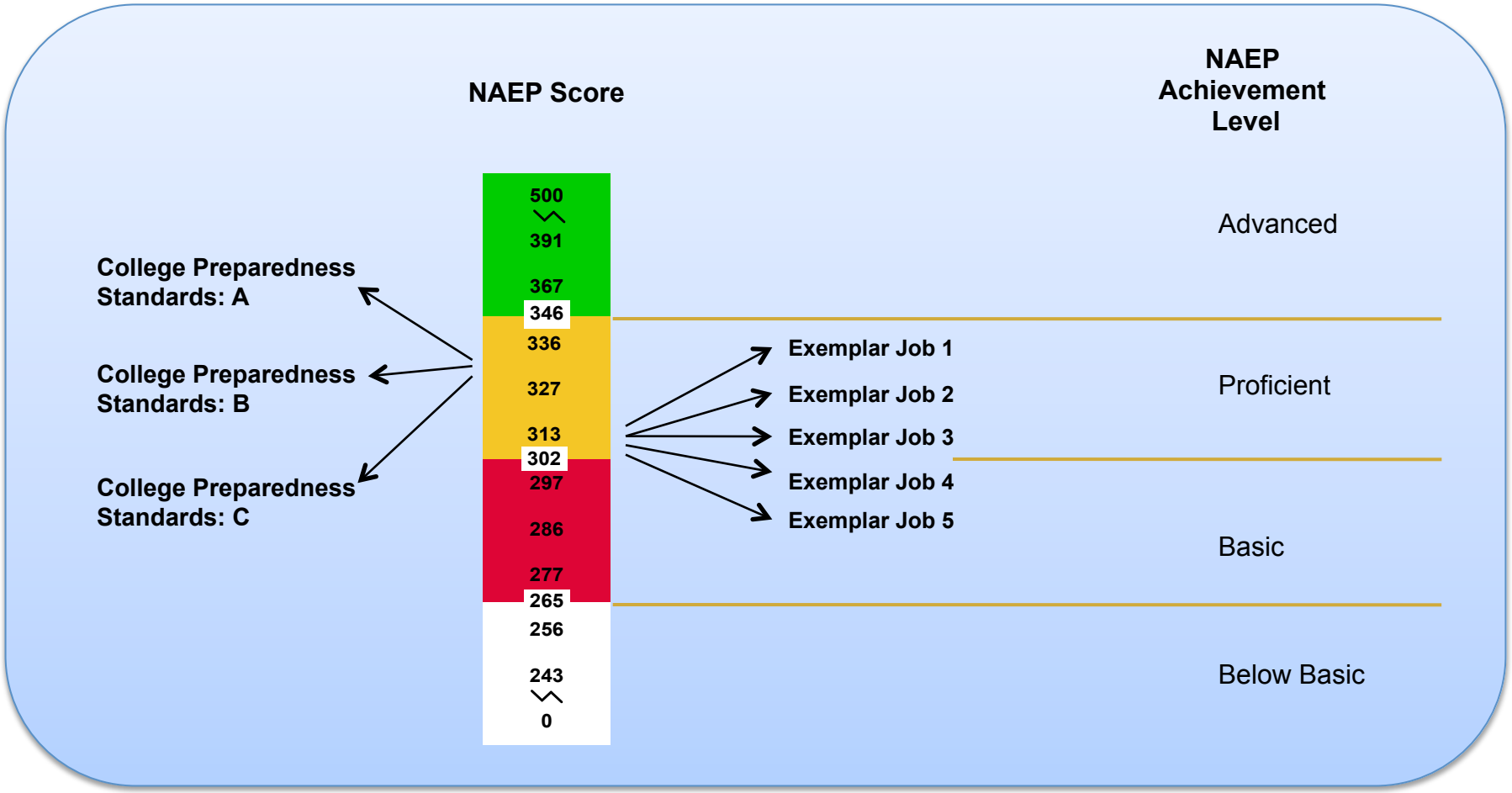
- **Higher Education Survey**

  Tests and cut-scores used to place freshmen

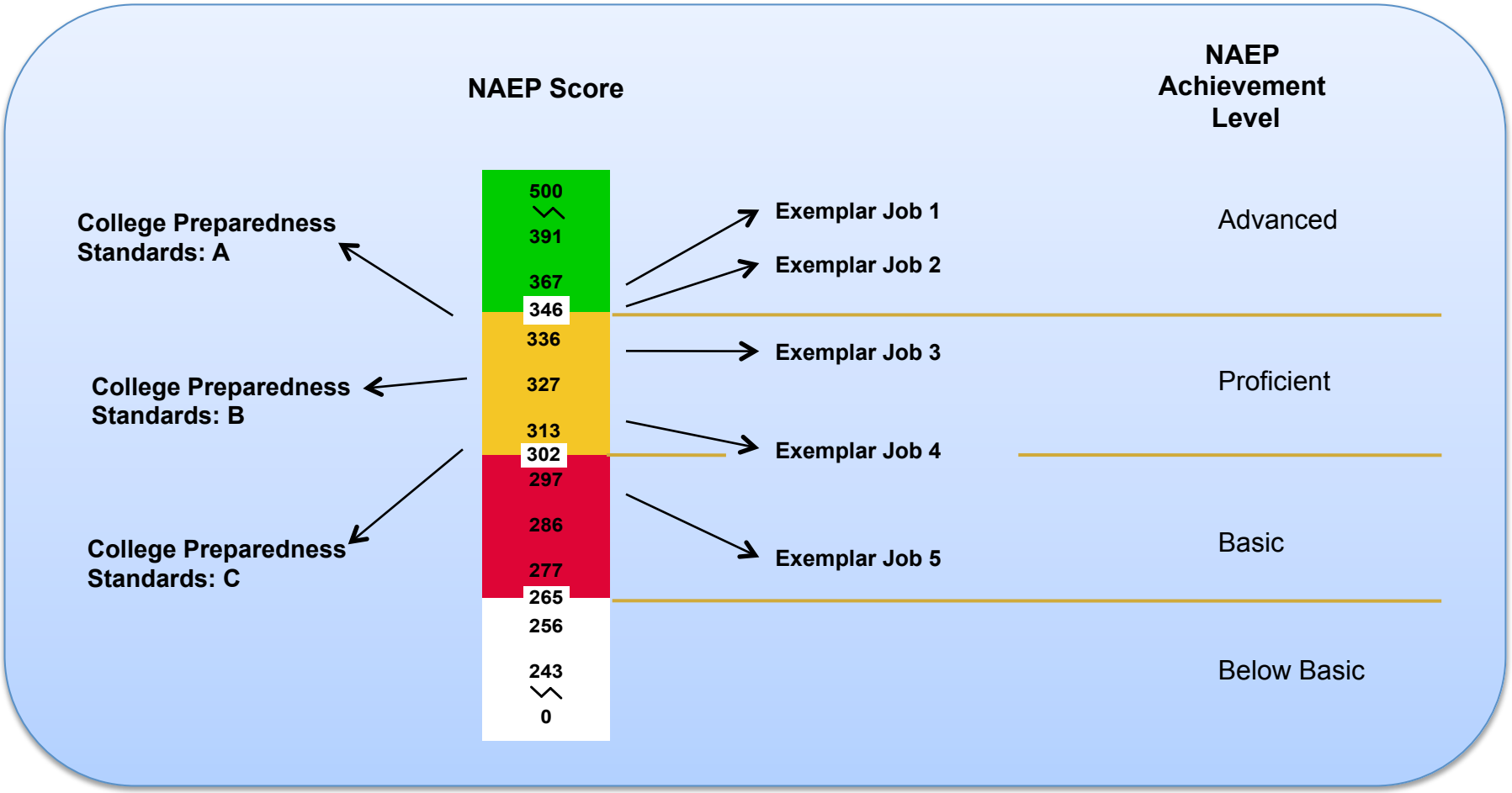
Scenario 1: Results Converge



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 Massachusetts?
- Additional research to consider?
- Potential partners for additional research?
- Research to consider were Massachusetts to volunteer for 12th grade NAEP at the state level in 2013?

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

NAEP
12th GRADE
PREPAREDNESS
COMMISSION

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

October 24, 2011 Boston, Massachusetts