

## Beth Fultz NAEP Consultant Kansas State Department of Education

**KSDE Fall Conference** 

November 6, 2012

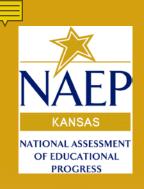


#### What is NAEP?

# NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

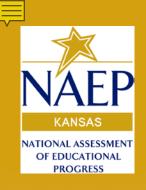
#### Required by ESEA (NCLB) at grades 4 & 8

- Reading and Mathematics
- Administered every two years (odd years)
- State Data



#### **NAEP BASICS**

- Who Determines the content?
  - The National Center for Education Statistics (NCES)
    - Test development
    - Administration
    - Scoring
    - Analysis
    - Reporting
  - National Assessment Governing Board (NAGB).
    - Content
    - Policy

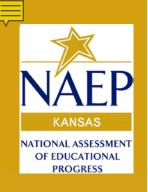


#### WHO TAKES NAEP

#### In Kansas

- Approximately 140 buildings per grade
- Approximately 3,000 students per subject per grade

NAEP uses a carefully designed sampling procedure for the assessment to be representative of school and students in each state and the United States.



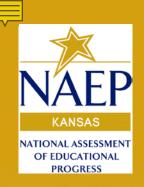
#### **NAEP SAMPLE**

#### **Fact:**

Every eligible student in Kansas has the same probability of selection.

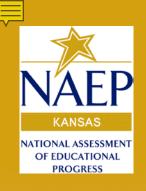
#### **Fiction:**

NAEP selection is a random sample.



## Points to Keep in Mind

- NAEP is different than Kansas assessments
  - Stratified sample equated to state demographics
  - NAEP is a paper/pencil assessment
  - NAEP has multiple choice and constructed response items
  - Every student selected is tested in one subject only
  - Students only take a portion of the entire test
  - Administered on a single day
  - For most students, one 90-minute test session
  - Some test accommodations are provided for students with disabilities and/or English language learners
  - NAEP does not have an alternate or modified assessment

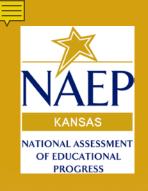


#### **NAEP RESULTS**

#### Scale Scores

#### Achievement Levels

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



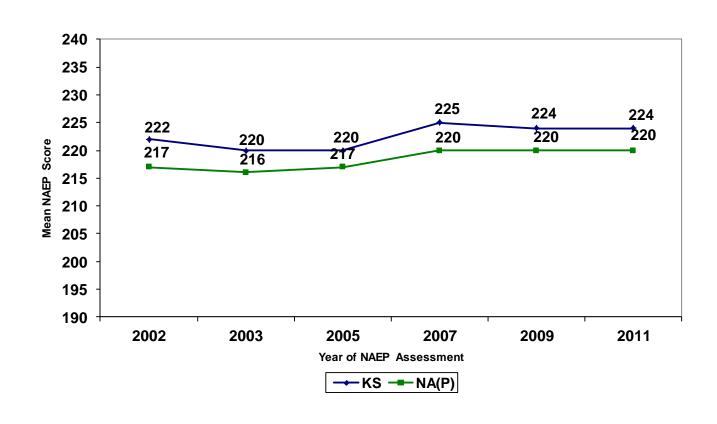
#### **NAEP RESULTS**

## NAEP makes state-to-state comparisons possible.

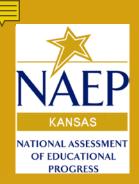
- Right now every state has different state standards and different criteria for meeting those standards.
- Future Assessments
  - SBAC
  - PARCC
  - Other State Assessments



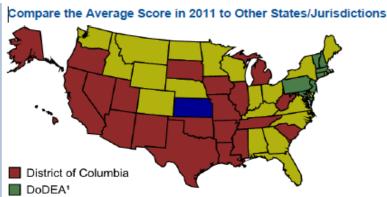
## **Grade 4 2011 Reading Results**Kansas vs. Nation (Public)



Reading Scale = 0 to 500



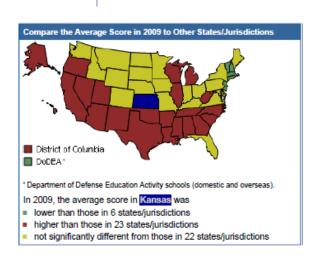
## Kansas Grade 4 211 Reading Results Compared to Other States

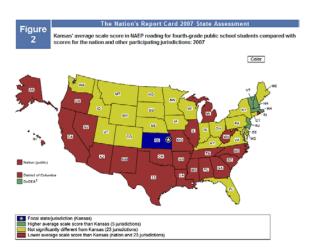


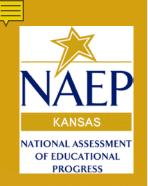
' Department of Defense Education Activity (overseas and domestic schools).

In 2011, the average score in Kansas (224) was

- lower than those in 8 states/jurisdictions
- higher than those in 22 states/jurisdictions
- not significantly different from those in 21 states/jurisdictions







## NAEP RESULTS

# 4<sup>th</sup> Grade Reading State Ranking

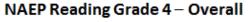
#### Kansas ranks 17<sup>th</sup>

behind Florida & Ohio and ahead of Colorado, Nebraska, Missouri, Wisconsin, & Texas

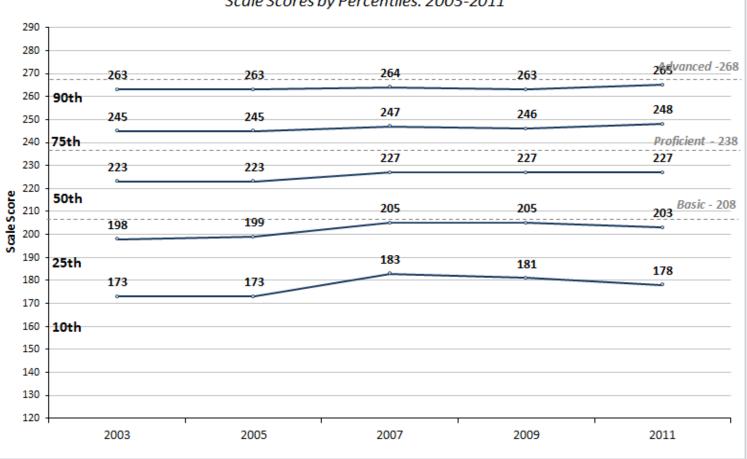
	Grade 4 Reading: State Ranking by Average Scale Scores
1	Massachusetts
2	New Jersey
3	Maryland
4	New Hampshire
5	DODEA
6	Connecticut
7	Pennsylvania
8	Vermont
9	Virginia
10	North Dakota
11	Montana
12	Kentucky
13	Delaware
14	Florida
15	Wyoming
16	Ohio
17	Kansas
18	Colorado
19	Nebraska
20	New York
21	Rhode Island
22	Minnesota
23	Maine
24	North Carolina
25	Wisconsin
26	Idaho
27	Georgia
28	Indiana
29	Iowa
30	Washington
31	Utah
32	Missouri
33	Alabama
34	NATIONAL PUBLIC
35	South Dakota
36	Illinnois
37	Michigan
38	Texas
39	Arkansas
40	Oregon
41	Oklahoma
42	South Carolina
43	Tennessee
44	West Virginia
45	Hawaii
46	Nevada
47	Arizona
48	California
49	Louisiana
50	Mississippi
51	New Mexico
52	Alaska
53	Washington DC
	0



### **Grade 4 Reading Results**

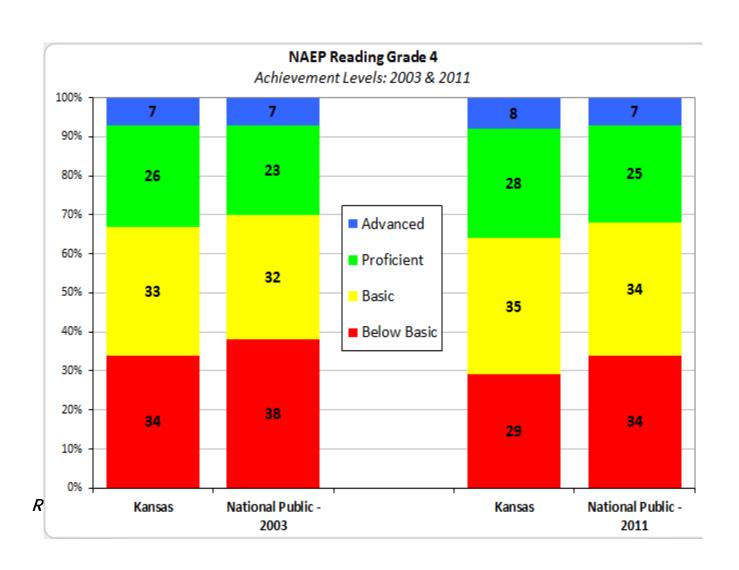


Scale Scores by Percentiles: 2003-2011





## **Grade 4 Reading Results**





## 2011 Grade 4 Students with Disabilities

#### KS (top) compared to nation

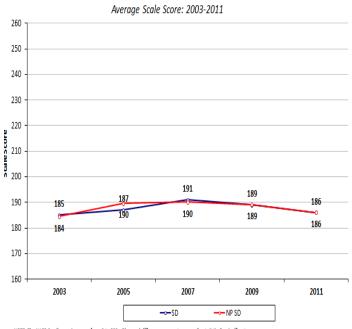
#### Math

#### NAEP Mathematics Grade 4 – Students with Disabilities

Average Scale Score: 2003-2011 280 270 260 250 240 n 230 220 220 220 218 218 210 200 190 180 2003 2005 2007 2009 2011 ->-SD ----NP SD NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

#### Reading

#### NAEP Reading Grade 4 - Students with Disabilities



NOTE; The NAEP Reading scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.



## NAEP and Governor Brownback

Literacy Summit at ESU on December 7, 2011

- Kansas will be in the top 5 states for average 4<sup>th</sup> grade reading scores in 2014 (based on 2011 data, this would require an increase of 5 points, from 224 to 229, on Kansas NAEP scores).
- Kansas will be #1 in average 4<sup>th</sup> grade reading scores in 2018 (based on 2011 data, this would require an increase in 14 points, from 224 to 238, on Kansas NAEP scores).



## NAEP and Governor Brownback

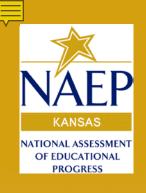
#### Five Measurable objectives for 2015 campaign

(April 14, 2012)

- 1) Increase private-sector employment
- 2) Increase net personal income
- Upgrade fourth-grade reading

Brownback wants to increase the percentage of Kansas fourth-grade students reading at grade level. His influence will be tracked through the National Center for Educational Statistics' report of student performance on the National Assessment of Educational Progress.

- 4) Better prepare high school graduates
  - ACT
  - Technical Certification
- 5) Diminish childhood poverty



## NAEP, CCSS & SBAC

NAEP reading framework for assessments

CCSS-ELA content standards for instruction

 SBAC ELA assessment framework aligned to CCSS-ELA



- Similar research-based models
  - monitor of learning related to CCSS-ELA in Reading
- NAEP reading emphasizes 3 cognitive targets
  - understanding written text
  - developing and interpreting meaning
  - using meaning as appropriate to type of text, purpose, & situation
- CCSS-ELA make no mention of the cognitive processes, instead focuses on the outputs/behaviors to demonstrate performance



 NAEP does not have separate grade level standards for grades 4, 8 12

- NAEP specifies the same Cognitive targets across grades
  - CCSS has grade level standards (learning progressions)
  - SBAC will attach cognitive levels to targets (Webb)



#### Disciplinary Reading

- CCCS emphasis across content areas
- NAEP has content specific passages

#### Vocabulary

- NAEP measures passage context, not stand alone vocabulary
- CCSS Language Strand includes vocabulary
- SBAC will also test in context.



NAEP assesses reading and writing separately

#### Writing

- Both writing as a social, communicative activity
- Both describe similar, broad domains of writing
- Both identify and discuss essentially the same valued characteristics of effective writing
- Both signal need for increased attention to informational and argumentative/persuasive writing
- CCSS has writing about reading tasks, NAEP does not include writing about reading
- Both acknowledge the growing importance of technology in writing



## Why Focus on NAEP?

### 4<sup>th</sup> Grade Reading

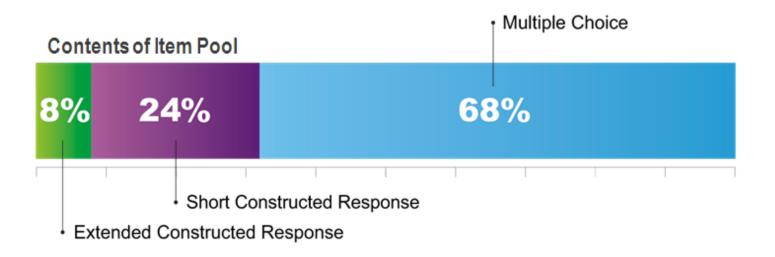
- Improved NAEP scores
- CCSS formative tool
- SBAC item type



- Sample Questions
  - Marian's Revolution (social studies)
  - Daddy Day Care (science)
    - Constructed response items
      - Types of questions
      - Scoring
      - Kansas Data



## **Item Type Distribution Reading**







NAEP Questions Tool

Analyze Data | Sample Questions | State Comparisons | State Profiles | District Profiles

#### Explore NAEP Questions

After each assessment, NAEP releases dozens of sample questions to the public—more than 2,000 questions are currently available. The tools featured here can be used to supplement classroom instruction, provide additional insight into the content of the assessment, and show what students nationally or in your state or district know and can do. Explore the tools or print a quick reference quide to find out more about NAEP.

#### Questions Tool >>



Explore a database of released NAEP questions.

#### Item Maps >>



See what students at each achievement level are likely to know and can do.

#### Test Yourself >>



Try out actual questions administered to students in the NAEP assessments.

#### Scoring >>



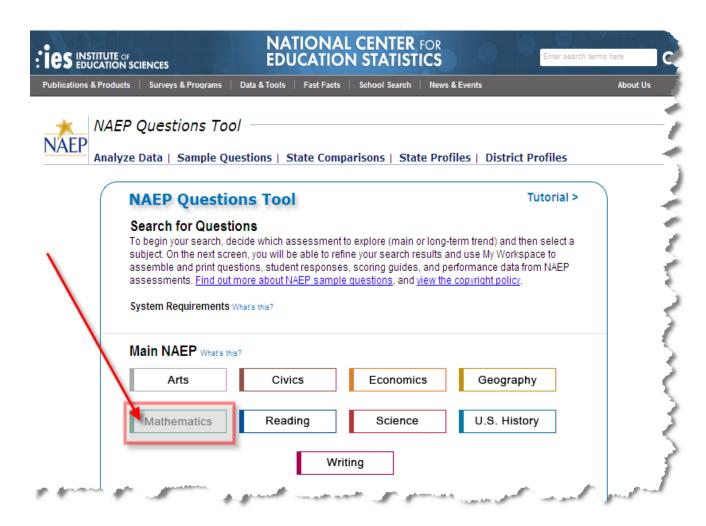
Learn how NAEP questions are scored.

#### What's New?

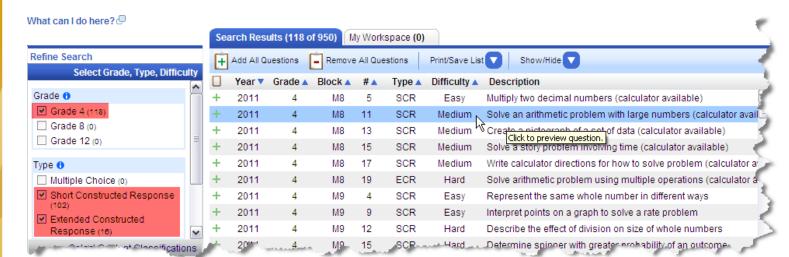
- Results of the 2011

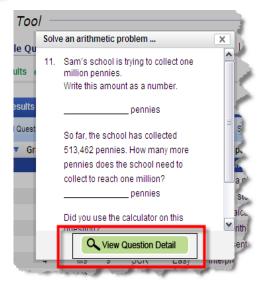
  mathematics and
  reading
  assessments
- 71 multiple-choice and 27 constructedresponse <u>mathematics</u> questions.
- 34 multiple-choice and 27 constructedresponse <u>reading</u> questions.



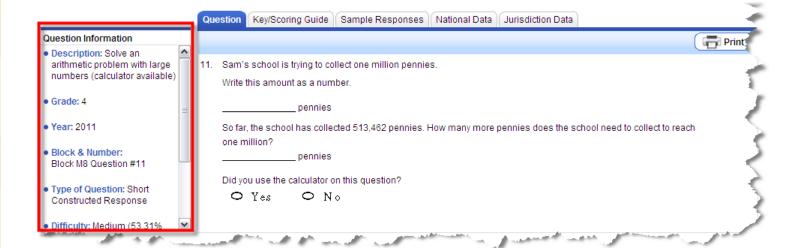


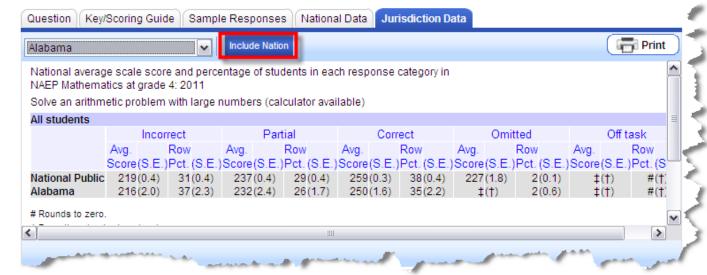














### **CONCLUDING THOUGHTS**

## **QUESTIONS**



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