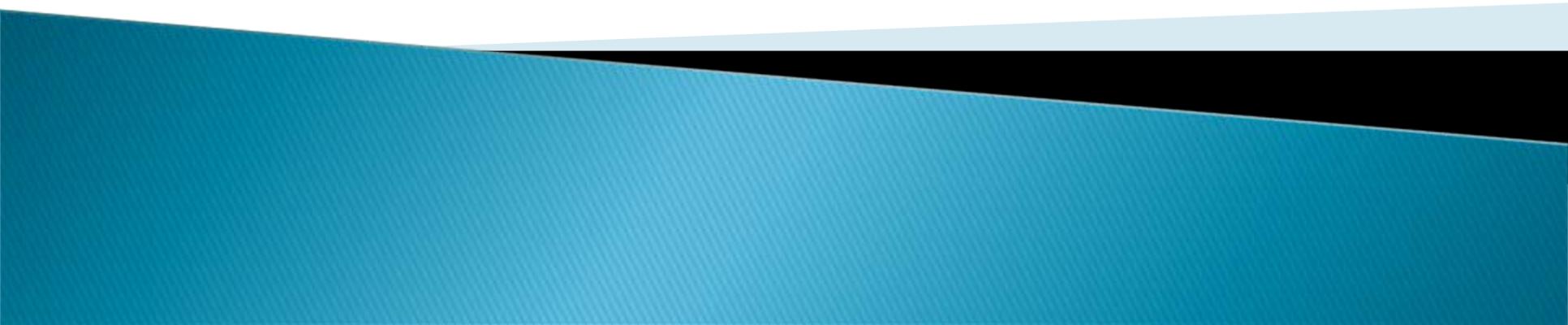


NC Department of Public Instruction
Accountability Model
for State Testing

November 2013





Timeline

- October 3: State Board of Education (SBE) adopted Academic Achievement Standards (cut scores) and Academic Achievement Level Descriptors
- October: NCDPI applied the cut scores to the 2012–13 tests and generated READY Accountability results for presentation to the SBE in November
- November 7: Public website opens with state, district and school results for 2012–13
- November 7: Software available to produce Individual Student Reports (redesigned with explanation of what the scores mean on the back side of the report)



Background

SBE Adopted More Rigorous Content Standards

Expectations for Students Increased

New Tests Aligned to These Expectations



Rigor Evident in Other Measures

National Assessment of Educational Progress (NAEP)

The ACT



Prepares Students for a More Demanding Job Market

College Ready

Career Ready



College and Career Readiness

It is important to remember that we have raised expectations significantly in the 2012–13 school year...

so that all students are on a path to being college and career ready by the time they graduate.

Goal:
Grade-level Proficiency and
Career- and College-Readiness

New Student Outcomes in Kentucky

- ▶ KY implemented the more rigorous Math and English Language Arts standards along with new state tests in 2011–12.
- ▶ In the first year, the percent of KY students on or above grade level dropped.
 - Elementary Reading fell to 48.0%
 - Elementary Math fell to 40.4%
 - Secondary Reading fell to 46.8%
 - Secondary Math fell to 40.6%

SOURCE:

<http://applications.education.ky.gov/SRC/AssessmentByState.aspx>

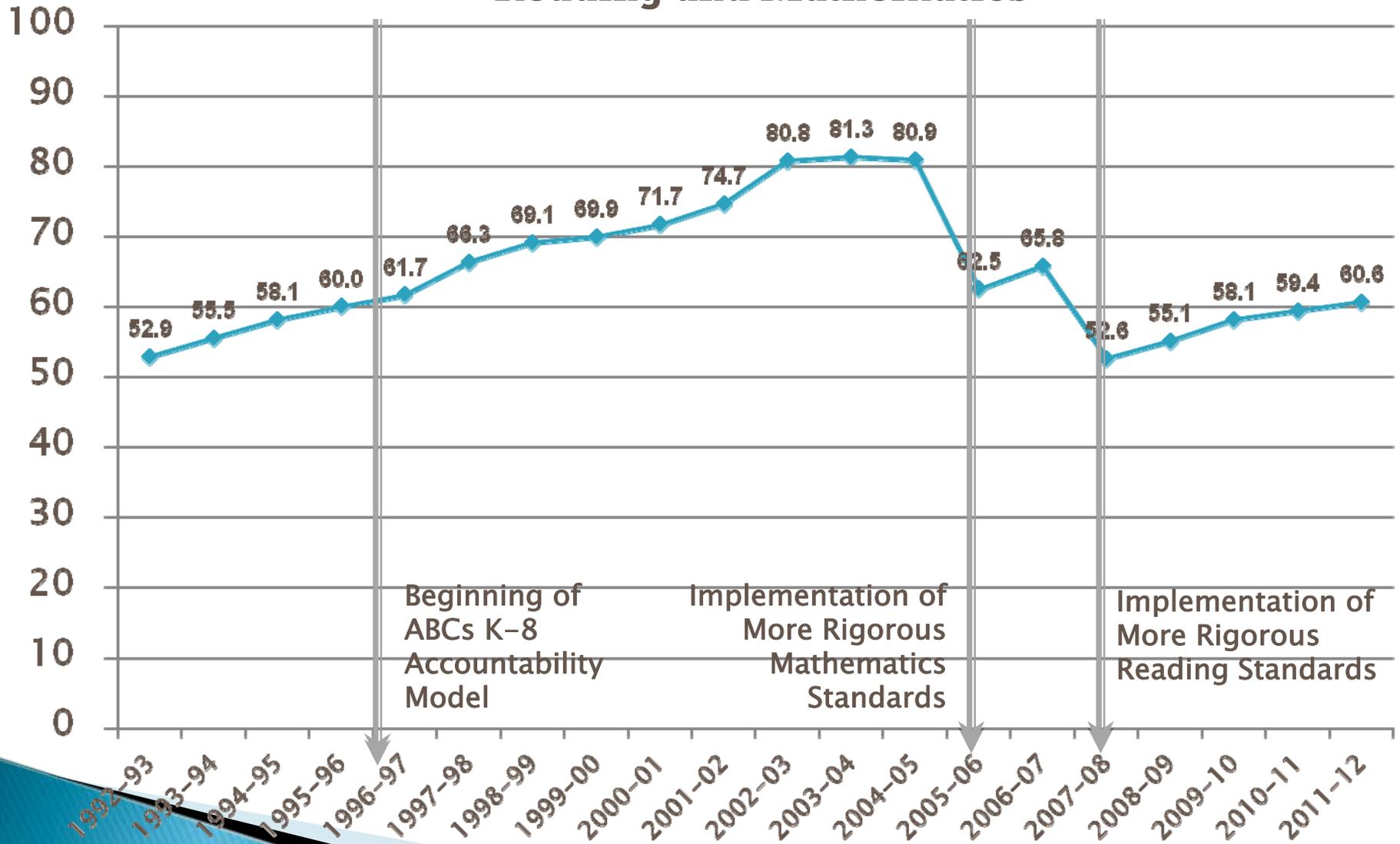
New Student Outcomes in New York

- ▶ NY implemented the more rigorous Math and English Language Arts standards along with new state tests in 2012–13.
- ▶ In the first year, the percent of NY students on or above grade level also dropped.
 - Grades 3–8 English fell to 31.1%
 - Grades 3–8 Math fell to 31.0%

SOURCE: Presentation, 2013 New York State Test Results: Grades 3 – 8



1992-93 to 2011-12 NC End-of-Grade (EOG) Test Results Percent of NC Students at or above Grade Level in BOTH Reading and Mathematics





Impact of More Rigorous Content Standards in 2012-13

- NC decline in percent of students on or above grade level (Level 3 or 4) is more pronounced than with earlier changes in curriculum
 - Previously, 13 to 15 percentage point decrease
 - For 2012–13, decreases in percent proficient range from:
 - 16 to 25 percentage points in Reading
 - 27 to 44 percentage points in Mathematics
 - 9 to 33 percentage points in Science



What does this mean?

The test scores are lower because

- the course content is more rigorous
- the tests are more difficult
- the state's definition of "performing at or above grade level" changed

Reading requires more careful analysis to comprehend the information/ideas

Mathematics requires understanding and application of mathematical processes; not just arithmetic



English Language Arts/Reading: Grade 6 EOG Sample Question

What is the effect of the simile in paragraph 25?

- A to show how surprised Liam was to see the fairy queen
- B to describe the speed of the old woman's movements
- C to explain how much the fairy queen liked Liam's choices
- D to illustrate that Liam was confused by the old woman

This item requires the student to identify the simile and then identify its impact/its purpose in the story. This goes beyond reading a story and re-telling the main events.



Mathematics: Grade 8 EOG Sample Question

Limousine Company P and Company R both charge a rental fee plus an additional charge per hour.

- The equation $y = 50 + 30x$ models the total cost (in dollars), y , of renting a limousine from Company P for x hours.
- The table below shows the cost to rent a limousine from Company R for different lengths of time.

Company R

Time (hours)	1	2	3	4	5
Total Cost	\$100	\$125	\$150	\$175	\$200

Which statement accurately compares the per hour charges of the two companies?

- A Company P charges \$5 less per hour than Company R.
- B Company P charges \$5 more per hour than Company R.
- C Company P charges \$25 less per hour than Company R.
- D Company P charges \$25 more per hour than company R.

This item requires the student to compare properties of two functions, each represented in a different way (equation and table). This goes beyond simply determining the rate of change of a function.



Science: Biology

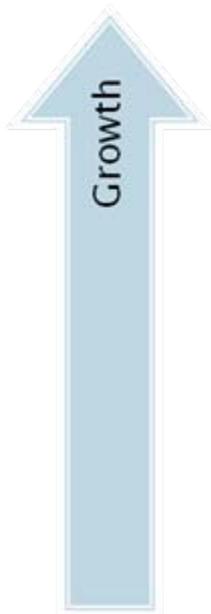
The use of pesticides on crops has been a common farming practice for decades. What has been the **greatest** effect of natural selection through the use of pesticides on certain insect populations?

- A** Natural selection has been altered because the insects and their predators are killed.
- B** The rate of selection is increased because the pesticides do not kill the insects that are naturally resistant to it.
- C** The rate of selection has decreased because the pesticides kill only young insects.
- D** The pesticides have altered natural selection by causing the insect DNA to spontaneously mutate.

This item requires the student to understand how various disease agents can influence natural selection and then select the correct cause and effect relationship. This goes beyond only knowing the content.

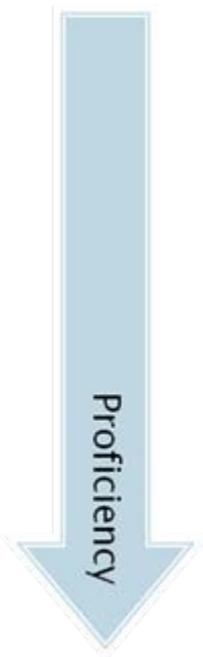


School Performance



A school may increase students' learning; meet/exceed expected growth,

But not increase the number of proficient students





Conclusions

- Though the percent of students scoring at or above Level 3 or 4 has dropped, approximately 70% of North Carolina schools met or exceeded growth expectations.
- Students continue to learn, and our expectations of what shows preparedness, now and beyond high school, has increased.
- Individual student reports for parents will include not only the proficiency levels of 1, 2, 3 or 4, but also percentiles.
- A percentile score indicates how the student is achieving in comparison to other students in the state. If a student achieves a percentile of 75, that means the student performed better than 75% of students in the state, and the student is in the top 25% statewide.