



**HOUSTON COUNTY  
BOARD OF EDUCATION**  
HIGH-ACHIEVING STUDENTS

# WELCOME TO HOUSTON COUNTY...

a great place to learn, live, work, and play!





HOUSTON COUNTY  
BOARD OF EDUCATION  

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HIGH-ACHIEVING STUDENTS

Our *mission* is to  
produce high-achieving students.

Our *vision* is that our  
system will be world class.



# HOW HAVE GEORGIA'S STANDARDS CHANGED?

- 1985 - Quality Core Curriculum (QCC): Georgia's first attempt at a consistent curriculum was a checklist of topics that lacked depth and did not meet national standards.
- 2004 - Georgia Performance Standards (GPS): First attempt to transition to clear expectations of what students should know and be able to do. The performance standards isolate and identify the skills needed to use the knowledge and skills to problem-solve, reason, communicate, and make connections with other information.



# HOW HAVE GEORGIA'S STANDARDS CHANGED?

- 2012 - Common Core Georgia Performance Standards (CCGPS): Part of a state-led initiative to refine and clearly target skills needed to ensure college and career readiness in English language arts and mathematics.
- 2015 - Georgia Standards of Excellence (GSE): After a formal review and evaluation process directed by executive order from Governor Deal, Georgia educators and stakeholders refined the CCGPS to ensure that our standards are in the best interest of Georgia students.

# WHAT IS DEPTH OF KNOWLEDGE?

- DOK is a tool that provides a frame of reference when thinking about how students engage with the content.
- DOK offers a common language to understand "rigor," or cognitive demand, in assessments, lessons, tasks, and conversations.
- Webb developed four DOK levels that grow in cognitive complexity:
  - Level One: Recall and Reproduction
  - Level Two: Skills and Concepts
  - Level Three: Strategic Thinking
  - Level Four: Extended Thinking

# WHAT DOES THIS MEAN FOR OUR STUDENTS?

- Instruction and assessment must ensure that students master each content area standard at the appropriate grade level.
- Instruction must be differentiated to meet individualized learner needs.

***Ultimately, a rigorous curriculum in Georgia produces graduates that are ready for college and the workplace and are competitive against other state and world markets.***

# ENGLISH LANGUAGE ARTS

Three main focus areas:

- ✓ reading (informational and literary texts)
- ✓ writing (narrative, informative/explanatory, and argument/opinion)
  - ✓ speaking and listening

***Students will increase proficiency in their reading, writing, speaking and listening skills as they progress from grade to grade.***

# WHAT CHANGES WILL YOU NOTICE IN THE STATE ASSESSMENT?

- Georgia Milestones (grades 3-8, 9<sup>th</sup> Literature and American Literature) will include open-ended items. Students will compare the viewpoints/main ideas of two authors/passages and must answer the prompt with supporting details from the passage(s).
- Selected response items (multiple choice) will require students to demonstrate understanding of how or why an author used a word, phrase, literary device, etc. For example, instead of identifying personification in a poem, the student might be asked to choose an impact that the author's use of personification had on the reader's understanding of the poem.

## ELA Narrative Constructed Response

- Provide *an original narrative response to a prompt*. They might be asked to change the point of view of one of the characters, rewrite the story with a different ending, etc.
- Use *narrative elements (such as dialogue) effectively*.

## Informative/Explanatory Extended Response

- Provide a well-organized informative essay with details drawn from both passages.
- Provide original thought about the prompt and support that thinking with evidence from both passages.

## ELA Argument/Opinion Extended Response

- Introduce a well-developed claim with details drawn from both passages.
- Provide original thought about the prompt and support that thinking with evidence from the text.
- Clearly choose a side to the argument.
- For grades 7, 8 and high school, students must *present both sides of the argument, including a counterclaim.*

# NOTABLE CHANGES

- Across content areas, students will read a balance of informational and literary texts.
- Students will use text to build knowledge about the world.
- Students will read text closely, often rereading and thinking about text in multiple ways.
- Students will engage in rich and relevant evidence based conversations about text.
- Students will write using evidence from multiple sources to inform or make an argument.
- Students will build relevant, transferable vocabulary they need to access grade level, complex texts.

# HOW CAN YOU HELP YOUR CHILD AT HOME?

## ***Cultivate a love of reading and writing!***

- Provide access to lots of reading material, including books, newspapers and magazines.
- Read aloud and write together. Ask questions about what you read, calling attention to new vocabulary. If your child doesn't know an answer, go into the text again for clues. Reading aloud can also help reluctant readers enjoy books and gain confidence.

***The more your child reads and writes, the stronger his or her writing will become.***

# SOCIAL STUDIES REVISION TIMELINE

- Spring 2015—Teacher survey of GPS
- Fall 2015—Stakeholder survey of GPS
- October 2015—Working committee made up mainly of Georgia teachers
- November 2015—Advisory Committee and academic Review Committee
- January 2016—60-Day Public Review of new GSE
- 2016-2017—Professional Development for revised standards
  - Field test constructed response questions
- 2017-2018—Full implementation of GSE
  - Constructed response questions on state assessment

# NOTABLE CHANGES

- K-2 Grade Standards
  - More developmentally appropriate
    - Common vocabulary from K-12 in each domain
- 3-5 Grade standards
  - 4<sup>th</sup> and 5<sup>th</sup> Grade GPS – 2 year US History course
    - Now divided into 3 grade levels (3<sup>rd</sup>-5<sup>th</sup>)
- 6-8 grades added financial literacy elements
- 7<sup>th</sup> Grade religions—monotheistic, holy books, holy places, role of Abraham, view Jesus in different ways
- 8<sup>th</sup> Grade—7 delinquent acts have been removed
- US History—requires conceptual understanding of themes rather than memorization of discrete facts
- World Geography—more like an AP Human Geography course
- DOK increase in language of the standard
- Literacy and skills standards

# HOW ARE WE PREPARING TEACHERS FOR THESE CHANGES?

- Provide trainings with ongoing support for successful implementation of GSE.
  - Build teacher capacity in pedagogy to reflect an increased Depth of Knowledge in the new GSE.
  - Build teacher capacity in best instructional practices to engage students in content knowledge and understanding.
  - Build teacher capacity in integrating literacy standards in informational reading and writing throughout the curriculum.

# HOW ARE WE PREPARING TEACHERS FOR THESE CHANGES?

- Build teacher capacity in incorporating map and globe skills and informational processing skills throughout the curriculum.
- Build teacher capacity in the integration of technology in the classroom.
- Build teacher capacity through model classrooms and support from system instructional coach.

# HOW ARE WE SUPPORTING STUDENTS WITH THESE CHANGES?

- Provide world-class education by developing students' ability to analyze information through a social sciences lens.
  - Engagement with primary and secondary source documents.
  - Development of informational reading and writing skills.
  - Immersion through inquiry based activities in:
    - Economics
    - Government/Civics
    - Geography
    - History
  - Application of technology skills to research and process information to create authentic understandings in the social sciences.

# **MATHEMATICS**

## **Design and Organization of the Standards**

### **Standards for Mathematical Practice**

- Carry across all grade levels
- Describe habits of mind of a mathematically expert student

### **Standards for Mathematical Content**

- K-12 standards presented by grade level

## Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them

6. Attend to precision

2. Reason abstractly and quantitatively

3. Construct viable arguments and critique the reasoning of others

4. Model with mathematics

5. Use appropriate tools strategically

7. Look for and make use of structure

8. Look for and express regularity in repeated reasoning

Reasoning and explaining

Modeling and using tools

Seeing structure and generalizing

Overarching habits of mind of a productive mathematical thinker

# KEY IDEAS IN MATHEMATICS

Focus  
Coherence  
Rigor

**Focus:** Focus on concepts that are foundational. These are areas where there is a lot of return for the time invested.

**Coherence:** Think across grades and **link** to major topics within grades.

**Rigor:** Require solid conceptual understanding, fluency, and application.

# KEY IDEAS IN MATHEMATICS

- Focus in early grades on numbers (arithmetic and operations) to build a solid foundation in math
- “Evened out” pace across the grades
- Focus on *using* math and solving complex problems
- Emphasis on problem-solving and communication

# HOW TO SUPPORT STUDENTS AND TEACHERS

- Teachers:
  - Provide trainings with ongoing support for successful implementation of GSE.
  - Build teacher capacity in pedagogy to reflect an increased Depth of Knowledge in the new GSE.
  - Build teacher capacity in best instructional practices to engage students in content knowledge and understanding.
  - Build teacher capacity through model classrooms and support from system instructional coach.
- Students:
  - Identify and develop resources for students and parents.

# OUR K-5 SITE:

Students and parents can go to [www.hcbemathk-5.weebly.com](http://www.hcbemathk-5.weebly.com) to watch strategy videos and to read grade level newsletters for students in grades K-5.

[WWW.HCBEMATHK-5.WEEBLY.COM](http://www.hcbemathk-5.weebly.com)

HOME

ADDITION STRATEGY VIDEOS

SUBTRACTION STRATEGY VIDEOS

**MULTIPLICATION STRATEGY VIDEOS**

DIVISION STRATEGY VIDEOS

ADDITIONAL VIDEOS

GRADE LEVEL NEWSLETTERS

# OUR 6-12 SITE:

Students and parents can go to [www.hcbemath.weebly.com](http://www.hcbemath.weebly.com) to find unit-by-unit help, extra practice, instructional videos, GA Milestones Study Guides and GA Milestones Practice Tests.

[WWW.HCBEMATH.WEEBLY.COM](http://www.HCBEMATH.WEEBLY.COM)

HOUSTON COUNTY  
BOARD OF EDUCATION  
HOUSTON COUNTY, GA

Choose Your Grade Level and Math Course Below - Click Image to Go to Site!

ARE MATH PROBLEMS DOGGING YOU?  
LET WEEBLY FETCH YOU SOME HELP!

STUDENTS AND PARENTS: GO TO  
HOUSTON COUNTY BOARD OF EDUCATION  
WEEBLY WEBSITES FOR STUDENTS AND PARENTS!

SIXTH GRADE, ACCELERATED  
[www.hcbeACmath6.weebly.com](http://www.hcbeACmath6.weebly.com)

AC COORDINATE ALG/ANALYTIC GEOM A  
[www.hcbeACmath9.weebly.com](http://www.hcbeACmath9.weebly.com)

# SCIENCE REVISION TIMELINE

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# SCIENCE STANDARDS

## Features Incorporated for Standards Revision

- Clarification Statements
- 3-D Learning (Scientific & Engineering Practices, Crosscutting Concepts, and Disciplinary Core Concepts)
- Applying Science to Solve Problems
- Connecting to STEM, Literacy & 21<sup>st</sup> Century Skills

# **NEW SCIENCE STANDARDS BY COURSE**

## **Elementary School Courses**

- K-5

## **Middle School Courses**

- Earth Science
- Life Science
- Physical Science

## **High School Courses**

- Biology
- Chemistry
- Earth Systems
- Environmental Science
- Physical Science
- Physics

# SYSTEM SCIENCE INITIATIVES

## Student Support

- Science Olympiad (K-5)
- Science Fair (6-12)
- STEM Activities (K-12)
- Family Science Nights (K-8)

## Teacher Support

- Teacher Collaboration (K-5)
- Vertical Team (4-12)
- STEM Workshops (K-12)
- Ongoing Support for Georgia Standards of Excellence (K-12)

# STEM

- Two STEM certified elementary schools
- Elementary, middle, and high schools pursuing STEM certification
- Houston County STEM Committee
- FireStarter Fab Lab
- Partnerships
  - Robins Air Force Base
  - Museum of Aviation
  - Flint Energies
  - 21<sup>st</sup> Century Partnership

# NOTABLE DIFFERENCES IN CTAE

- CTAE classrooms give students hands-on activities that will provide the knowledge and experience to be career ready. We work closely with our local businesses and industries to ensure we are offering appropriate courses to help them attain the skills necessary to be successful in the workforce.
- The classrooms in CTAE courses look a little different than “traditional” classrooms. Many of these have staging areas where the teacher will introduce the activity for the day or give specific directions. From there, they move to the lab area. In some classes labs will have computers. In others, it could be an area with a piece of equipment like a 3-D printer. The Agriculture Education lab areas could include barns and greenhouses.

# THE REDESIGNED SAT



The first administration of the redesigned SAT was in spring 2016.

The redesigned SAT will be offered in print everywhere and by computer in select locations..

# About the Redesigned SAT

## 3 SECTIONS:

Evidence-Based  
Reading and Writing  
200-800 points

Math  
200-800 points

Essay  
Separate Score

3 Hours\*

50 Minutes\*

*\*Please note: All time limits are tentative and subject to research.*

# 8 Key Changes to the SAT



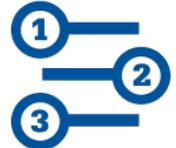
**Relevant words  
in context**



**Command of  
evidence**



**Essay analyzing a  
source**



**Math focused on  
three key areas**



**Problems grounded in  
real-world contexts**



**Analysis in science  
and social studies**



**Founding documents  
and great global  
conversation**



**No penalty for  
wrong answers**

# Current SAT Example: Essay

**Think carefully about the issue presented in the following excerpt and the assignment below.**

Some see printed books as dusty remnants from the preelectronic age. They point out that electronic books, or e-books, cost less to produce than printed books and that producing them has a much smaller impact on natural resources such as trees. Yet why should printed books be considered obsolete or outdated just because there is something cheaper and more modern? With books, as with many other things, just because a new version has its merits doesn't mean that the older version should be eliminated.

## **Assignment:**

Should we hold on to the old when innovations are available, or should we simply move forward? Plan and write an essay in which you develop your point of view on this issue. Support your position with reasoning and examples taken from your reading, studies, experience, or observations.

# GEORGIA STANDARDS OF EXCELLENCE AND GIFTED EDUCATION

- Georgia Standards of Excellence serve as benchmarks for what all students should know but do not limit curriculum for gifted and talented students.
- To address the curricular needs of gifted and high-potential students, teachers differentiate curriculum through posing progressively more complex issues, adjustment of texts according to each student's reading level and interest, modification of mathematical processes according to those previously mastered, and pace of instruction.

# ADVANCED PLACEMENT

Exam Year	# Exams w/ 3,4,5	Estimated Amount Saved in Tuition Costs
2006	440	\$ 428,120
2007	584	\$ 820,812
2008	676	\$1,019,070
2009	684	\$1,287,630
2010	819	\$1,788,696
2011	760	\$1,799,680
2012	857	\$2,109,007
2013	834	\$2,142,610
2014	1128	\$2,602,296
2015	1107	\$2,782,998

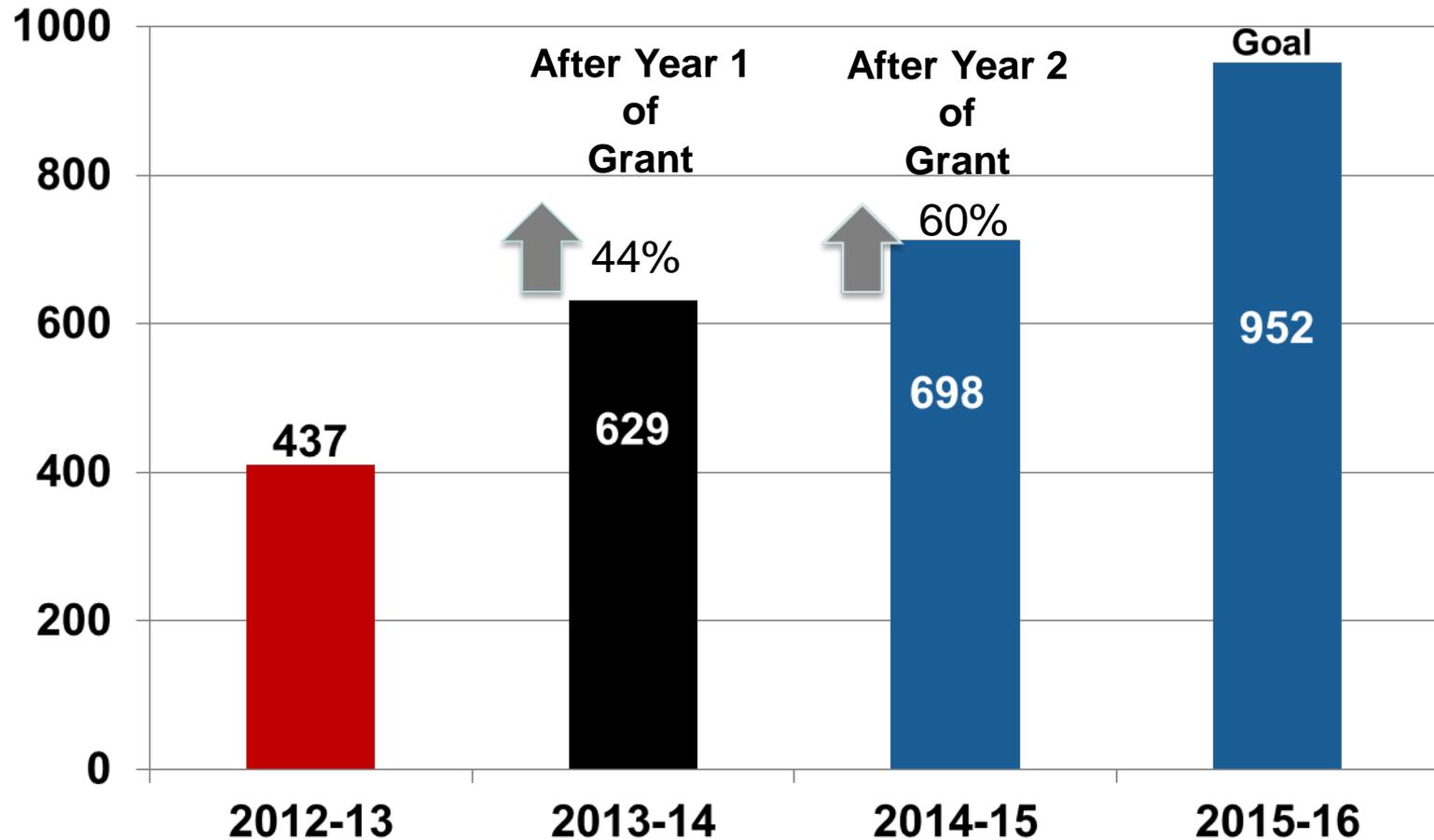
# NMSI Enrollment & Qualifying Scores by Individual School

School	Pre NMSI Enrollment	Year 1 NMSI Enrollment	Year 2 NMSI Enrollment	Change from Pre NMSI
Northside	107	256	330	208%
Perry	131	331	351	168%
Veterans	169	241	542	221%
Houston County	248	469	622	151%
Warner Robins	227	302	283	25%
<b><u>TOTALS</u></b>	<b><u>882</u></b>	<b><u>1599</u></b>	<b><u>2128</u></b> 	<b><u>+141%</u></b> 
School	2012-13 Pre NMSI Qualifying Scores	Year 1 NMSI Qualifying Scores	Year 2 NMSI Qualifying Scores	Change from Pre NMSI
NHS	46	86	71	54%
PHS	57	100	106	86%
VHS	104	142	217	109%
HCHS	138	166	187	36%
WRHS	92	135	117	27%
<b><u>TOTALS</u></b>	<b><u>437</u></b>	<b><u>629</u></b>	<b><u>698</u></b> 	<b><u>+60%</u></b> 

# Three Year Goals: Houston County Schools

Qualifying Scores on AP math, science, and English exams 2013-14, 2014-15, 2015-16

## AP MSE Qualifying Scores



dodea

DEPARTMENT OF DEFENSE EDUCATION ACTIVITY



NATIONAL  
MATH + SCIENCE  
INITIATIVE



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# QUESTIONS?

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