

# Outcomes for the Session

*By the end of the session, participants will have....*

*Building a competitive and inspired future workforce.*

1. Received background information about changes in the mathematics curriculum
2. Considered how these changes may affect your child
3. Discussed ways to help your child at home



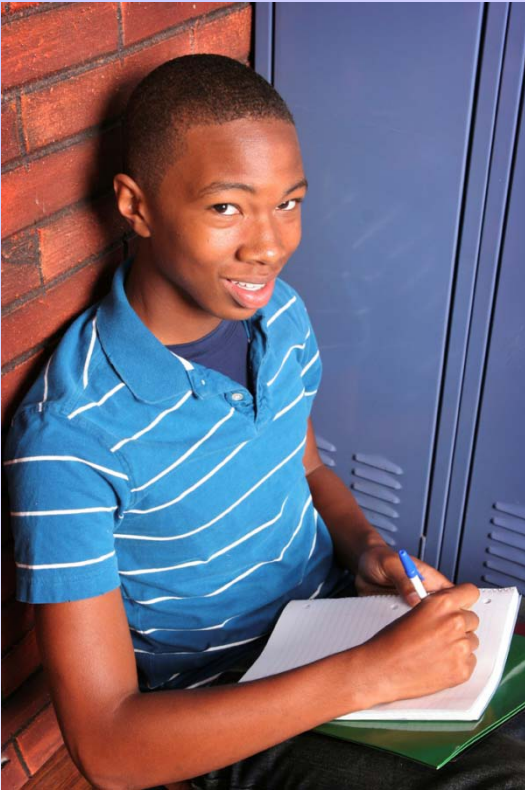
# Why Change Curriculum?

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- ✿ TIMSS and other studies
- ✿ Standards movement
- ✿ Diverse goals
- ✿ Greater focus and coherence



# MCPS Mathematics Goal



All students will achieve mathematical proficiency so that they are able to think and reason mathematically and use mathematics to solve problems.

# How were the *Common Core State Standards for College and Career Readiness* developed?

- ★ Developed in 2009-2010
- ★ Council of Chief State School Officers (CCSSO)
- ★ National Governor's Association Center for Best Practices (NGA Center)
- ★ 48 states and District of Columbia

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# What's in a Name?

## *Common:*

- \* Shared

## *Core:*

- \* Essential

## *State:*

- \* made, maintained, or chartered by or under the authority of one of the commonwealths that make up a federal union

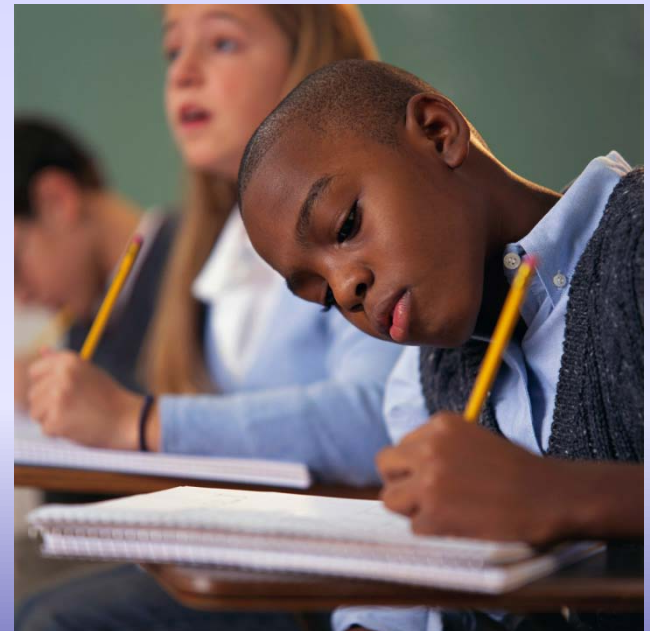
## *Standards:*

- \* a clear set of shared goals and expectations for the knowledge and skills necessary for student success

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**The standards stress not only  
“How?” procedural skill  
but also  
“Why?” conceptual understanding,  
to make sure students are learning  
what they need to succeed at  
higher levels**



# Similarities / Differences

Both...

- ✿ Vertically aligned
- ✿ **Mathematical proficiency**
- ✿ College/Career readiness
- ✿ **Opportunities for all students**
- ✿ Research and evidence based

CCSS...

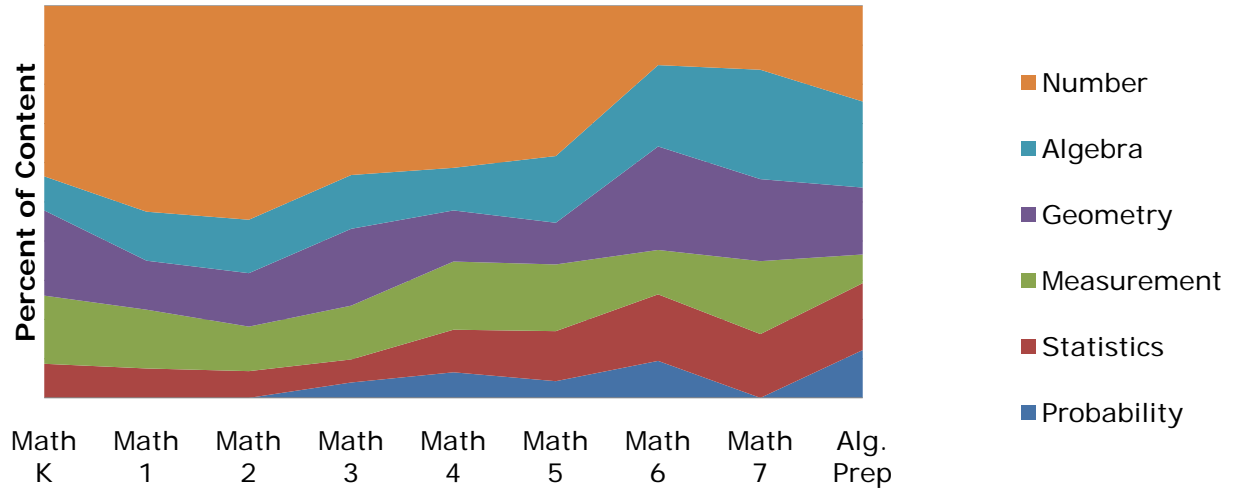
- ✿ Fewer topics in elementary grades
- ✿ **Change in where specific content occurs across grade levels**

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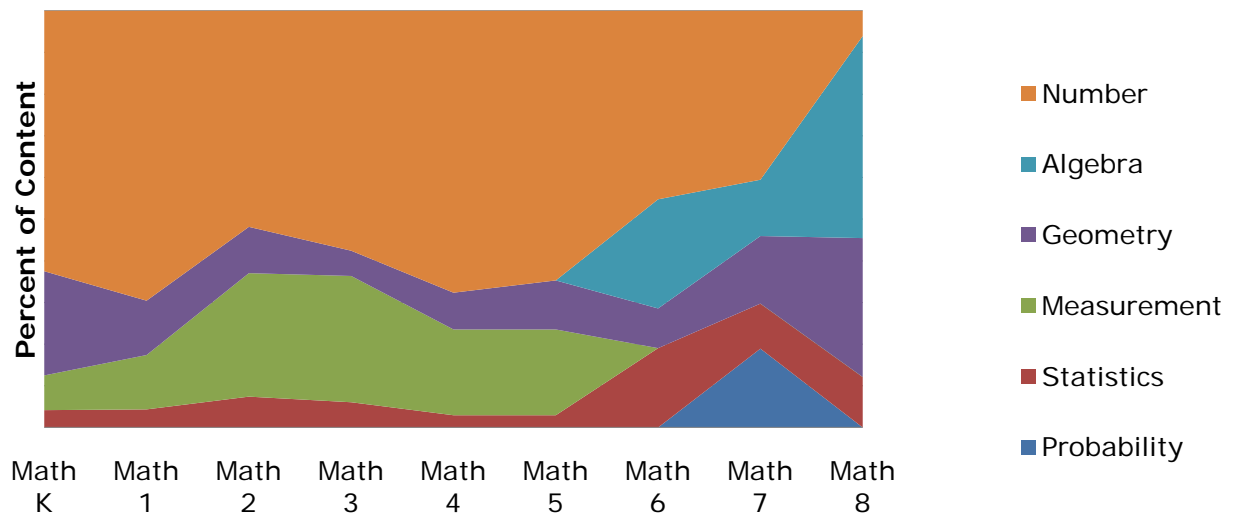




# Current MCPS Curriculum



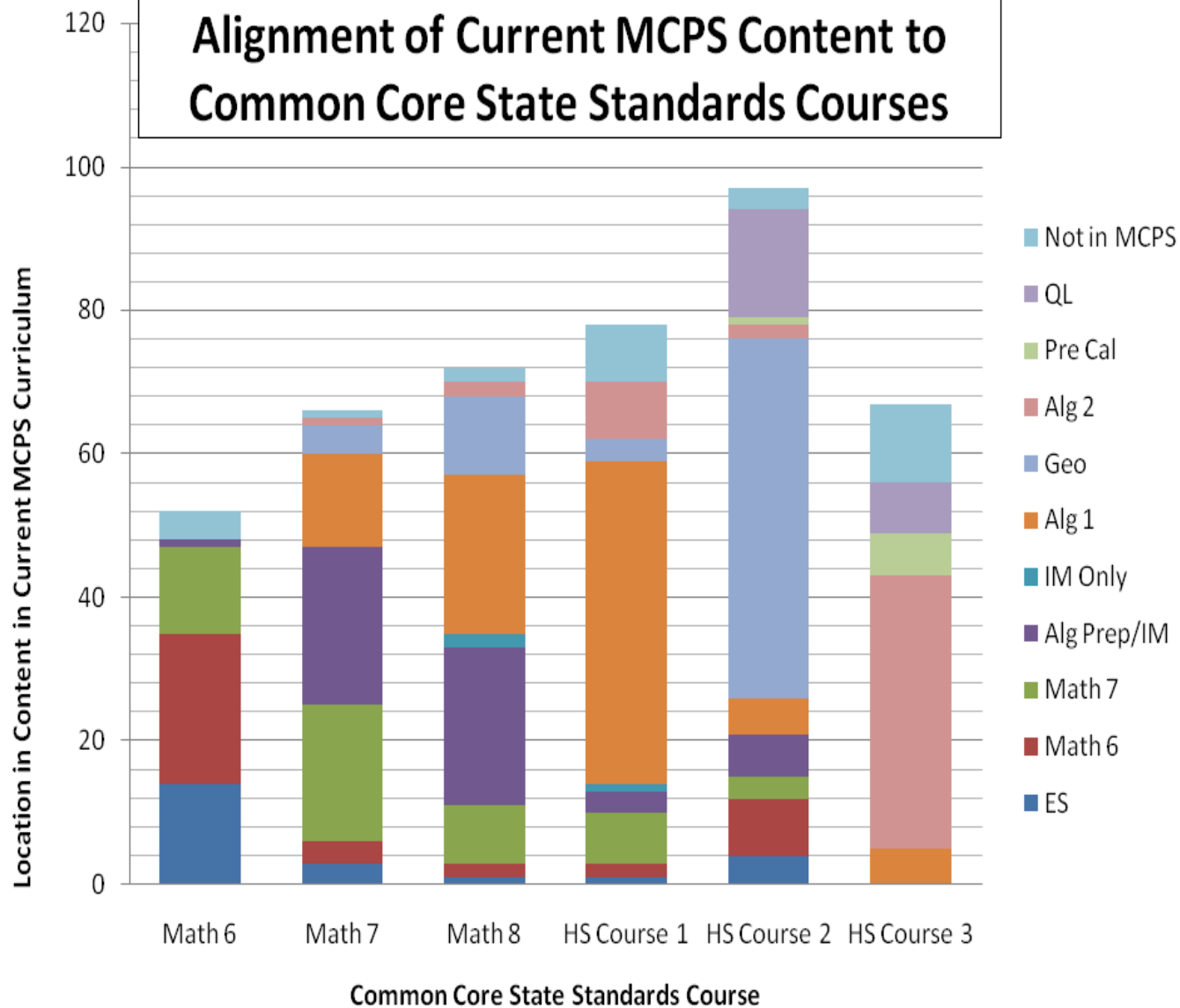
# Final Common Core Standards







# Alignment of Current MCPS Content to Common Core State Standards Courses



# What Does This Mean for Your Child?

- ✿ Elementary students will begin using the CCSS as part of the Elementary Integrated Curriculum



# What Does This Mean for Your Child?



- ✿ Students currently in Grade 2 and above will see little change in content next year
- ✿ More information from MSDE will help us complete our plan this summer



# What Does Change Look Like?

## Current Curriculum

### GRADE 5 UNIT 1 INDICATOR 6.5.3.1

- ✿ Write one prime number greater than 50 and less than 100.  
Prime number: \_\_\_\_\_
- ✿ Write one composite number greater than 50 and less than 100.  
Composite number: \_\_\_\_\_
- ✿ Use what you know about prime and composite numbers to explain why your answers are correct. Use words, symbols, and/or numbers in your explanation.

## Future EIC Based on Common Core

- ✿ Some content moves to a lower grade level. This concept is mastered in Grade 4 Common Core.

# How should I be guiding my child in selecting courses?

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- ✿ Data show that students who have completed Algebra 1 by the end of Grade 8 with a "C" or better are more likely to be successful in college.
- ✿ Students who take Investigations into Mathematics (IM) in Grade 7 have the opportunity to build readiness for Algebra 1.

# Considerations

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- ✧ In order to receive high school credit, middle school students must:
  - ✧ Pass both semesters of the course
  - ✧ Pass the second semester final exam
  - ✧ Take the Maryland High School Assessment
  - ✧ Take the Maryland State Assessment at their grade level

# Another Key Consideration

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- ✿ Data show that students who complete Algebra 2 by the end of Grade 11 with a "C" or better are more likely to be successful in college and careers.
- ✿ Algebra 2 is emerging as an important course for a variety of careers.
- ✿ The University Systems of Maryland will begin to require Algebra 2 for admission with this fall's high school freshman class.



# How Can Parents Help?

- ✿ Be positive about math
- ✿ Communicate with your child
- ✿ Have high expectations
- ✿ Respect the way your child learns
- ✿ Look for math in daily life



# Resources

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- ✿ This presentation and links to a variety of parent resources is posted on the MCPS Mathematics website.
- ✿ From the MCPS homepage → Curriculum → Mathematics
- ✿ GHS students can receive help from National Honor Society peers during the school day (SHOW time) and from math teachers during their lunch period.