

MATH MATTERS PARENT WORKSHOP

POWDER SPRINGS ELEMENTARY SCHOOL JANUARY 21ST 2023

WELCOME !!!!

Raven Brown Slaughter, Academic Coach

Raven.Brown@cobbk12.org

Lisa Daves, Parent Facilitator

Lisa.Daves@cobbk12.org

Louise Felton, Academic Coach

Louise.Felton@cobbk12.org

Beth Ruff, School Counselor

Beth.Ruff@cobbk12.org

WELCOME !!!!

Shari Martin, Second Grade

Shari.Martin@cobbk12.org

Janis Rone, Fifth Grade

Janis.Rone@cobbk12.org

Michelle Tincher, Fourth Grade

Michelle.Tincher@cobbk12.org

Dina. Voyles, RTI Facilitator/EIP

Dina.Voyles@cobbk12.org

AGENDA

Ice Breaker

Introductions and Overview

Why has Math Instruction Changed?

Math Mindset with Dr. Ruff

Grade Level Sessions 9:40-11:10

What Resources Are Available to Parents?

Questions

ICEBREAKER

SOUND FAMILIAR?



WHAT CHALLENGES DO YOU FACE WHEN YOU ARE HELPING YOUR CHILD WITH MATHEMATICS?

GOALS

To build parent understanding of math instruction

To develop knowledge of resources provided by CCSD

To practice commonly used strategies

To provide math games, apps and websites that can be used at home

CCSD BALANCED MATH INSTRUCTION

APPLICATION & PROBLEM SOLVING

Students use the concepts and skills that they acquire to:

Solve problems with the use of models and explanations.

Solve and analyze performance tasks for deep/rich

contextualized problem solving and application of the

concepts to new or unique situations.

K-12
BALANCED
MATHEMATICS
INSTRUCTION

Apply towards Problem Based Learning where students explore real-world problems and challenges for possible solutions.

Work individually and collaboratively to explain and justify their thinking.

The Cobb Teaching and Learning Standards for Mathematics focus on the acquisition of math skills through conceptual instructional strategies. This results in an understanding of math principles to apply towards critical thinking and problem solving.

Students use manipulatives, software, and technology to investigate and discover math concepts.

Students understand concepts through models, simulations and relevant real world examples.

Students represent the mathematics through drawing pictures, graphics, tables, numbers, and mbols.

Students are given purposeful skills and practice to strengthen computation.

Students engage in explanatory writing to justify their thinking. Students become fluent by applying strategies and procedures efficiently and accurately.

MATHEMATICS FOUNDATIONAL SKILLS

STANDARDS for MATHEMATICAL PRACTICE

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Justify and explain their reasoning and critique the reasoning of others.
- Model with mathematics, i.e. graphs, drawings, tables, symbols, etc.
- Use appropriate math tools strategically, i.e. manipulatives, calculators, rulers, etc.
- Attend to precision, i.e. clear communication, accuracy, measurement, calculations.
- Look for and make use of patterns and structure.
- Look for and express regularity in repeated reasoning through rules, properties and shortcuts.





WHY HAS MATH INSTRUCTION CHANGED?

TRENDS IN PERFORMANCE

FEBRUARY 15, 2017



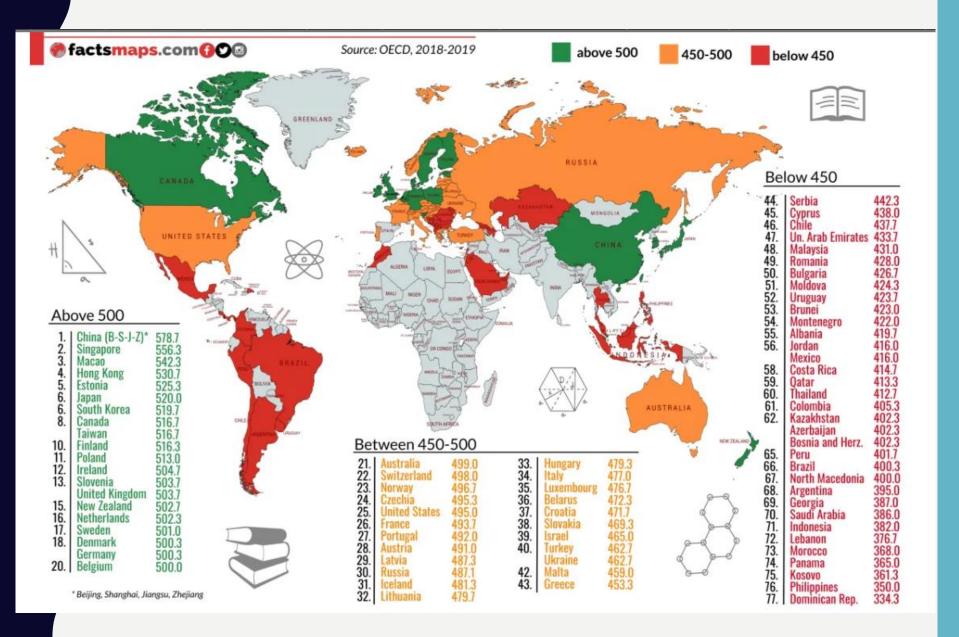
U.S. students' academic achievement still lags that of their peers in many other countries

How Do American Students Compare to Their International Peers?

The most recent math results from an international survey place the United States near the bottom.

Scores in math, reading and science posted by 15-year-olds in the United States were flat while their counterparts elsewhere — particularly in Shanghai, Singapore and other Asian provinces or countries — soared, according to the <u>results</u> of a well-regarded international exam released Tuesday.

HOW DO WE MEASURE UP?



SOLUTION

This "New Math" is centered around the idea that a student should be exposed to core components of more complicated math earlier on to build number sense and understanding of number relationships early, bit by bit.



MATH MINDSET

DEVELOPING POSITIVE ATTITUDES TOWARDS MATHEMATICS

DR. BETH RUFF

GRADE LEVEL SESSIONS 9:40 - 11:10

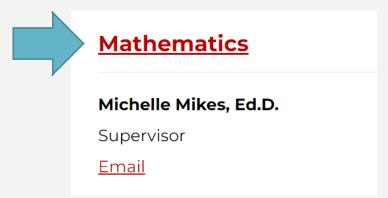
WHAT RESOURCES ARE AVAILABLE TO PARENTS?

COBB COUNTY RESOURCES

Go to cobbk I 2.org, select
 Departments and select Academic
 Division



 Select Instruction and Innovative Practice and scroll to Mathematics



 Parent resources are located here.





COBB COUNTY RESOURCES

Video Overviews

 Parent Resources include explanation of standards, parent letters and strategy guides.



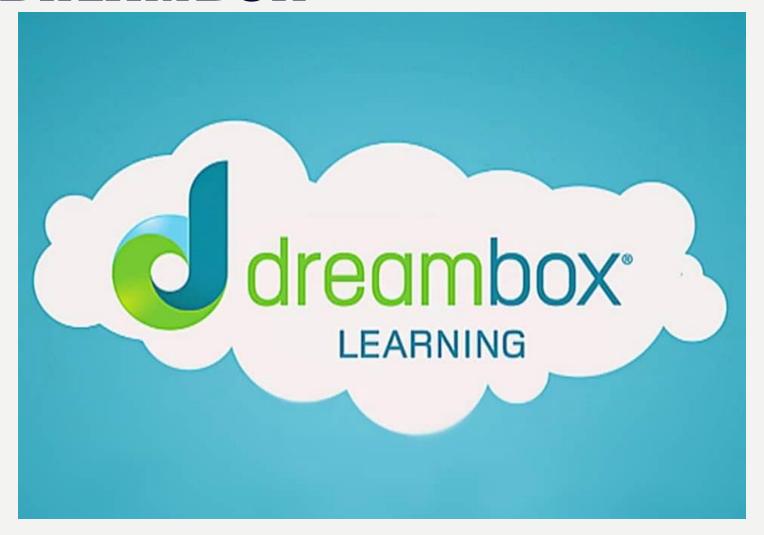
1st Grade - Elementary School

Click to Receive Parent Resources (English)

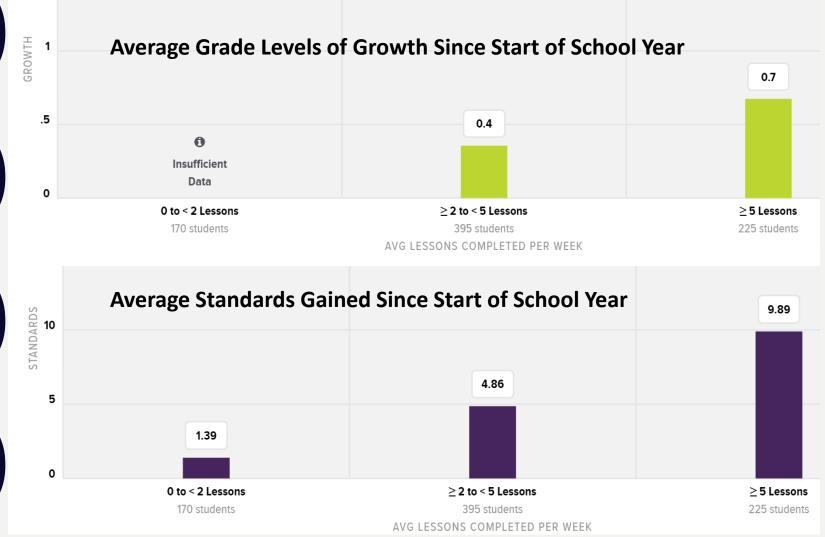
Click to Receive Parent Resources (Spanish)

Click to Receive Clarification of Standards for Parents

DREAMBOX



GROWTH BASED UPON LESSON COMPLETION



OTHER MATH APPS AND WEBSITES

MORE MATH WEBSITES

Khan Academy

Math Playground

Maths Frame

Funbrain

Xtra Math

Prodigy Game

Cool Math 4 Kids

<u>IXL</u>

AAA Math

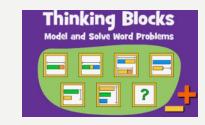
Fog Stone Isle

FREE MATH APPS

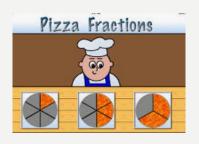
K-2 Math Apps

3-5 Math Apps













QUESTIONS & FEED BACK





THANK YOU

 We appreciate your attendance at today's session.
 Please provide any feedback on how the workshop will assist you to work with your child at home.

The only way to learm mathematics is to mathematics.

PAUL HALMOS