

K-12

BALANCED MATHEMATICS INSTRUCTION



In the Cobb County School District, balanced Mathematics instruction supports student's ability to reason and think critically about quantities in mathematical contexts. Aligned to Georgia's K-12 Mathematics Standards, students develop conceptual understanding, procedural skills, and use math to solve real-world problems.

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 tasks for rich contextualized problem solving and application of concepts to new or unique situations. Work individually and collaboratively to apply learning to real-world problems and challenges.

STANDARDS FOR MATHEMATICAL PRACTICE

These practices rest on important processes and proficiencies with longstanding importance in mathematics education.

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Justify and explain their reasoning and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate math tool strategically.
6. Attend to precision.
7. Look for and make use of patterns and structure.
8. Look for and express regularity in repeated reasoning through rules, properties and shortcuts.

MATHEMATICS FOUNDATIONAL SKILLS

- Students use manipulatives and digital tools to explore, model, and deepen understanding of mathematical concepts.
- Students develop conceptual understanding through models, simulations, and meaningful real-world contexts.
- Students represent mathematical ideas using visual, numerical, symbolic, and graphical forms.
- Students develop fluency by applying strategies and procedures with accuracy, efficiency, and flexibility.
- Students engage in purposeful practice to build computational fluency grounded in conceptual understanding.

