

BALANCED INSTRUCTION

An effective mathematics classroom incorporates a variety of instructional approaches that focus on the development of conceptual understanding and procedural skills through problem-solving. A balance of these approaches allows students to engage in authentic learning, utilize the mathematical practices, and make connections.

Practices

- **Embedded** Students engage in meaningful and challenging learning activities that address their unique characteristics and needs.
 - Students engage in learning experiences that foster communication, collaboration, creativity, and critical thinking.
 - Students leverage a variety of digital and print resources to learn content and demonstrate what they know.

Standards for Mathematical Practice

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

Apply & Problem-Solve

- Students communicate ideas to develop skills and understanding.
- **Students focus** on efficiency of strategy rather than rote procedures.
- Students solve problems to understand math in the world around them.

Authentic Connections

- Students mathematize their world.
- Students make mathematical connections.
- Students apply their thinking to new contexts and situations.
- Students engage in inquiry.

Core Knowledge & Skills

- Students utilize various tools to make sense of mathematical skills and concepts.
- Students understand concepts through models and relevant examples.
- Students visually represent mathematics.
- Students engage in explanatory/reflective writing.
- Students develop skills through purposeful practice.
- Students compute with numbers accurately, efficiently, and flexibly.