

# Math Highlights

## Grade 7 Math

**What your Middle School Student will learn . . .**

Students will learn through a research-based balanced instructional approach that includes both discovery learning and direct instruction in the following units:

- Ratios and Proportional Relationships
- The Number System
- Expressions and Equations
- Geometry
- Statistics and Probability

**Your Middle School Student will continue to develop the Standards for Mathematical Practice . . .**

- Makes 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

**What your Middle School Student will do . . .**

- Analyze proportional relationships
- Perform rational number operations
- Generate equivalent expressions
- Solve problems using linear equations and inequalities
- Understand geometric relationships
- Solve problems involving angles, surface area and volume
- Analyze and compare populations
- Find probabilities of events

**What families will see . . .**

- Children practicing and reviewing their math skills and concepts
- New math vocabulary
- Emphasis on collaboration and cooperation as a community of learners
- Children using the Big Ideas Math online resource available anywhere, anytime and on almost any device with an internet connection

**How families can help . . .**

- Encourage your child to share their math learning and math assignments
- Discuss with your child how successful he/she feels
- Log-in with your child to the Big Ideas Math site at [www.bigideasmath.com](http://www.bigideasmath.com) for math practice and support
- Keep open communication with your child's teachers