



## Curriculum – Eighth Grade Go Math

**GO Math** is designed to fully address the State Standards. Concepts within each grade are organized in units that align to major domains and provide focus on key big ideas. Within each unit, concepts are organized into modules that align to clusters and build connections among the individual standards. Grade 8 standards will address the number system, expressions and equations, geometry, statistics and probability, and functions.

### Marking Period 1: Real Numbers, Exponents, and Scientific Notation

- Relationships between sets of real numbers
- Irrational numbers including  $\pi$
- Ordering irrational and rational numbers
- Scientific notation (Positive and Negative Powers of 10)
- Properties of integer exponents
- Scientific notation
- Operations with scientific notation
- Rewrite rational and decimals, take square roots, and approximate irrational numbers
- Describe relationships between sets of real numbers
- Develop and use the properties of integer exponents
- Using scientific notation to express very large and very small quantities
- Add, subtract, multiply, and divide using scientific notation

### Marking Period 2: Proportional and Non-Proportional Relationships and Writing Linear Equations

- Proportional relationships
- Rate of change and slope
- Interpreting the unit rate as slope
- Representing linear non-proportional relationships
- Graphing linear non-proportional relationships using slope and y-intercept
- Writing linear equations from situations and graphs, from a table, and using bivariate data

### Marking Period 3: Functions, Solving Linear Equations, Solving Systems of Linear Equations

- Identifying and representing functions
- Describing and Comparing Functions
- Analyzing Graphs
- Equations with variables on both sides
- Equations with rational numbers
- Equations with Distributive Property
- Equations with many and no solutions
- Solving systems of linear equations by graphing, substitution, and elimination
- Solving systems by elimination of multiplication and special systems

### Marking Period 4: Transformations and Congruence, Transformations and Similarity, Angle Relationships in Parallel Lines and Triangles, Pythagorean Theorem, and Volume

- Properties of translations, reflections, rotations,
- Algebraic representations of transformations

For more information about your child's Math curriculum, please contact your child's teacher or call the Curriculum Office at 857-4234.

- Congruent Figures
- Properties of dilations
- Algebraic representations of dilations and similar figures
- Parallel lines cut by a transversal
- Angle theorems for triangles
- Angle-Angle Similarity
- Pythagorean Theorem
- Converse of Pythagorean Theorem
- Distance between two points
- Volume of cylinders, cones, and spheres

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