



8th Grade Math

Mrs. Mathias

Materials: Each student should bring the following items to class every day: a spiral notebook, Math workbook, and pencil.

Text: McGraw Hill: Glencoe Math: Course 3; Volume 1 & 2

Online Resources: [iReady](#), [IXL](#), [Kahn Academy](#), [Achieve 3000](#), [Teacher.Desmos.com](#)

Focus: Reasoning abstractly, quantitatively, and appropriately to make real-world applications in problem solving.

Semester 1 (August-January)	Semester 2 (February-June)
<ol style="list-style-type: none">Unit 1: The Number System<ul style="list-style-type: none">Know that there are numbers that are not rational, and approximate them by rational numbers.Unit 2: Expressions and Equations<ul style="list-style-type: none">Work with Radicals and integer exponents.Understand the connections between proportional relationships, lines, and linear equations.Analyze and solve linear equations and pairs of the simultaneous linear equations.Unit 3: Functions<ul style="list-style-type: none">Define, evaluate, and compare functions.Use functions to model relationships between quantities.	<ol style="list-style-type: none">Unit 4: Geometry<ul style="list-style-type: none">Understand congruence and similarity using physical models, transparencies, or geometry software.Understand and apply the Pythagorean Theorem.Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.Unit 5: Statistics and Probability<ul style="list-style-type: none">Investigate patterns of association in bivariate data.