

Mr. Nelson; 8<sup>th</sup> Grade Math

**Materials:** Each student should bring the following items to class every day: a two inch three- ringed binder, Math workbook, planner, and pencil.

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

**Online Resources:** I-Ready, IXL, Kahn Academy, Achieve 3000, Teacher.Desmos.com

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

<b>Trimester 1 (August- November)</b>	<b>Trimester 2 (November- March)</b>	<b>Trimester 3 (March- June)</b>
<ol style="list-style-type: none"><li>1. Unit 1: The Number System<ul style="list-style-type: none"><li>• Know that there are numbers that are not rational, and approximate them by rational numbers.</li></ul></li><li>2. Unit 2: Expressions and Equations<ul style="list-style-type: none"><li>• Work with Radicals and integer exponents.</li><li>• Understand the connections between proportional relationships, lines, and linear equations.</li><li>• Analyze and solve linear equations and pairs of the simultaneous linear equations.</li></ul></li></ol>	<ol style="list-style-type: none"><li>3. Unit 3: Functions<ul style="list-style-type: none"><li>• Define, evaluate, and compare functions.</li><li>• Use functions to model relationships between quantities.</li></ul></li><li>4. Unit 4: Geometry<ul style="list-style-type: none"><li>• Understand congruence and similarity using physical models, transparencies, or geometry software.</li><li>• Understand and apply the Pythagorean Theorem.</li></ul></li></ol>	<ol style="list-style-type: none"><li>5. Unit 4: Geometry<ul style="list-style-type: none"><li>• Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.</li></ul></li><li>6. Unit 5: Statistics and Probability<ul style="list-style-type: none"><li>• Investigate patterns of association in bivariate data.</li></ul></li></ol>