

GRADE 8 MATH CURRICULUM MAP 2008-2009

September	October	November	December	January
<p>Review concepts from 6/7th grade, including: fractions, order of operations, exponents, roots, algebraic expressions, integers, properties, equations, slope</p>	<p>Review concepts from 6/7th grade, including: fractions, order of operations, exponents, roots, algebraic expressions, integers, properties, equations, slope</p>	<p>8:8 TLW determine whether a given value(s) is a solution to an equation and graph and solve applied problems involving simultaneous linear equations and linear inequalities involving one and two variables. (Lessons 5-6 - inequalities)</p>	<p>8:8 TLW determine whether a given value(s) is a solution to an equation and graph and solve applied problems involving simultaneous linear equations and linear inequalities involving one and two variables. (Lessons 1-4 – systems of equations)</p> <p>8:5 TLW identify and represent linear functions, quadratics functions, and other simple functions using tables, graph and equations; describe how changes in one variable affect other variable(s); and solve problems.</p>	<p>8:2 TLW apply the concepts of zero and negative integer exponents, express rational numbers as terminating or repeating decimals, and approximate rational and irrational numbers on a number line.</p> <p>8:6 TLW find products of two simple binomials, recognize and apply common formulas, and factor simple quadratic expressions.</p>
February	March	April	May	June
<p>8:7 TLW relate quadratic equations and functions to their graphing, graph quadratic functions and find roots of the related equation, solve factorable quadratic equations, and solve applied problems.</p> <p>8:1 TLW estimate square roots and cube roots to areas of squares and cube roots to volumes of cubes, and solve problems.</p>	<p>8:9 TLW use the Pythagorean Theorem and distance formula to solve problems.</p> <p>8:10 TLW develop and use formulas for the circumference and area of a circle, find area and perimeter of complex figures by subdividing into basic shapes, and solve applied problems involving area and perimeter.</p> <p>8:11 TLW develop and use formulas for surface area and volume of common three-dimensional shapes.</p>	<p>8:12 TLW use transformations (dilations, reflections, and rotations) to solve problems involving similar and congruent polygons.</p> <p>8:14 TLW compute relative frequency, explain the relationship of probability to relative frequency, and apply the Basic Counting Principle to find total number of possible outcomes for independent and dependent events.</p>	<p>8:4 TLW solve problems in real-life situations involving weighted averages and ratio units.</p> <p>8:3 TLW solve problems in real-life situations involving percent increase or decrease, compound interest and multiple discounts.</p>	<p>8:13 TLW justify conclusions based on data, determine which measure of central tendency best represents a data set, and recognize potential bias in presenting or analyzing data.</p>