

GRADE 7 MATH CURRICULUM MAP 2007-2008

September	October	November	December	January
<p>7:3 Students will apply concepts of square root and cube root, simplify expressions using order of operations, and estimate square roots and cube roots.</p>	<p>7:4 Students will solve problems involving operations with integers and estimate and perform computations involving rational numbers. (Without fractions and decimals)</p>	<p>7:4 Students will solve problems involving operations with integers and estimate and perform computations involving rational numbers. (With fractions and decimals)</p>	<p>7:8 Students will use the associative, commutative, identity, inverse, zero, and distributive properties; simplify algebraic expressions of the first degree; and generate and solve linear equations of the form $ax+b=c$ and $ax+b=cx+d$</p>	<p>7:8 Students will use the associative, commutative, identity, inverse, zero, and distributive properties; simplify algebraic expressions of the first degree; and generate and solve linear equations of the form $ax+b=c$ and $ax+b=cx+d$</p> <p>7:1 Students will apply ratios, rates, proportions, and percents in problem-solving situations.</p>
February	March	April	May	June
<p>7:1 Students will apply ratios, rates, proportions, and percents in problem-solving situations.</p> <p>7:10 Students will use the concepts of similarity and congruence relating to angles and sides of polygons to solve problems and understand that when two dimensional shapes are similar with a scale factor of r, their areas are related by a factor of r^2</p>	<p>7:11 Students will calculate and interpret relative and cumulative frequencies, and create, represent and interpret data in various graphs and plots.</p>	<p>7:5 Students will understand and apply linear relationships of the form $y=mx+b$, directly proportional relationships of the form $y=mx$ and solve applied problems.</p> <p>7:6 Students will calculate the slope as a ratio from the graph of a linear function and know that the solution to a linear equation corresponds to the point at which the graph of its related function crosses the x-axis.</p>	<p>7:7 Students will recognize inversely proportional relationships in contextual situations, explain that the graph of $y = k/x$ never crosses the x- nor the y-axis, and solve simple problems.</p> <p>7:2 Students will solve problems involving derived quantities such as density, velocity, and weighted averages.</p> <p>7:9 Students will use appropriate tools to perform basic geometric constructions.</p>	<p>7:9 Students will use appropriate tools to perform basic geometric constructions.</p>