

## MATH 7 ESSENTIAL CONCEPTS

<p><b><i>September</i></b>            Estimate to determine reasonableness            Problem solving            Rational numbers and percent            Determine rational forms            Compare and order rational numbers            Identity property. Properties of 0            Operations with Rational Numbers            Simplifying expressions            Exponential notation            Scientific notation</p>	<p><b><i>December</i></b>            Create and extend patterns and sequences            Variable representation            Variables and patterns            Write variable expressions            Substitution Principle            Apply Distributive Property</p>	<p><b><i>March</i></b>            Find area            Use nets to construct and classify            Measure volume and weight            Use formulas for volume            Find surface area            Identify congruent figures            Similar figures</p>
<p><b><i>October</i></b>            Use Commutative and Associative Properties            Factors and divisibility            Apply Relatively Prime in working with rational number            Prime Factorization in problem solving            Apply inverse operations            Problem solving with rational numbers            Write ratios            Compare ratios as a proportion</p>	<p><b><i>January</i></b>            Write equations and inequalities            Inverse relationships            Solve equations and inequalities            Apply graphs and tables            Measure using customary and metric            Using common benchmarks            Convert units in same system</p>	<p><b><i>April</i></b>            Use graphs, tables and plots            Collect data for appropriate questions            Represent data using a variety of tools            Compare representations            Compare graphs            Scale changes in graphs            Make predictions and conjectures</p>
<p><b><i>November</i></b>            Proportional reasoning            Understand need for integers            Compare integers/opposites            Absolute Value as a distance            Apply additive inverse            Integer operations            Graph on a Coordinate plane</p>	<p><b><i>February</i></b>            Lines of symmetry            Slides, rotations and reflections            Measure and classify angles            Classify plane objects            Measurement and apply formulas            Develop area formulas</p>	<p><b><i>May</i></b>            Conduct probability experiments            Compare sample space            Compute probability using various tools            Recognize sum of probability            Review</p>