

**Sixth Grade Mathematics
Course Description**

First Trimester	Second Trimester	Third Trimester
Text:	Text:	Text:
Mathematics, Course 2 (7 th grade curriculum)	Mathematics, Course 2 (7 th grade curriculum)	Mathematics, Course 2 (7 th grade curriculum)
Outside Sources: Khan Academy	Outside Sources: Khan Academy	Outside Sources: Khan Academy
Objectives:	Objectives:	Objectives:
<ul style="list-style-type: none"> *Study of Patterns, Relationships *Introduce Algebraic Thinking *Study of Integers, Factors, Multiples, Rational Numbers *Operations with fractions and decimal numbers * Solve equations containing decimals or fractions 	<ul style="list-style-type: none"> *Operations with fractions *Explore ratios, rates, and proportions *Study of measurements *Proportions in Geometry *Create Tables and Graphs *Explore Linear Functions *Applications of Proportions and Percent 	<ul style="list-style-type: none"> *Organize and display data *Represent and analyze data *Study properties of lines, angles, circles, and polygons *Investigate perimeter, circumference, and area of geometric shapes *Introduce squares, square roots, and the Pythagorean Theorem
Topics:	Topics:	Topics:
<ul style="list-style-type: none"> *Study of Exponents, Scientific Notation *Properties of numbers *Translating, simplifying algebraic expressions * Solve equations using add, subtract, multiply, divide * Model addition, subtraction, division, and multiplication equations * Explore prime factorization, greatest common factor, least common multiple * Compare and order rational numbers, decimal numbers *Addition, subtraction, multiplication, and division of decimal numbers; solve equations containing decimals 	<ul style="list-style-type: none"> *Addition, subtraction, multiplication, and division of fractions *Compare unit rates, average speed, and unit price *Find equivalent ratios and identify proportions *Solve proportions *Convert customary units of measure *Similar figures and proportions, making scale drawings and scale models *Investigate, functions, tables, and graphs <ul style="list-style-type: none"> Slope, rate of change Graphing linear Functions (slope intercept form) *Relating fractions, decimals, percent <ul style="list-style-type: none"> Estimating with percent Percent of change Solving percent problems Simple interest *Explore square roots and perfect squares *Explore the Pythagorean Theorem 	<ul style="list-style-type: none"> *Prepare and interpret frequency tables, Stem-and-Leaf Plots, Line Plots *Determine mean, median, and mode of data sets *Prepare and interpret Bar Graphs, Histograms, Circle Graphs, Box-and-Whisker Plots *Using data sets, create line graphs and scatter plots *Study of Samples and Populations *Classify angles by size *Compare and contrast angles *Study the properties of and classify: <ul style="list-style-type: none"> Circles Polygons Triangles Quadrilaterals *Calculate perimeter and circumference *Determine the area of: <ul style="list-style-type: none"> Parallelograms Triangles Trapezoids Circles