

6th Grade Math Syllabus

Investigations Units Covered	Math Concepts
Shapes and Designs (Two-dimensional shapes)	<ul style="list-style-type: none"> • Understand the important properties of regular and non-regular polygons • Identify similar shapes • Estimate angle measures and angle sums • Using an angle measure for exact measurements • Explore parallel lines and their angles
Covering and Surrounding (two-dimensional measurement)	<ul style="list-style-type: none"> • Understand area and how it relates to surface area • Understand perimeter and how it relates to surface area • Develop strategies for finding area, perimeter, and surface area • Compare the areas of different geometric figures
Bits and Pieces III (Computing with decimals)	<ul style="list-style-type: none"> • Understand fractions, benchmark fractions, operations of fractions, and converting fractions to decimals • Develop algorithms for operations with decimals • Understand application of decimals, such as “percent off” problems
Variables and Patterns (Introducing Algebra)	<ul style="list-style-type: none"> • Review variables and writing variable expressions • Represent patterns in tables, graphs, words, and symbols
Stretching and Shrinking (Similarity)	<ul style="list-style-type: none"> • Identifying similar figures • Calculating the scale factor of a proportion • Setting up equivalent ratios • Drawing transformations
Accentuate the Negative (Positive and negative numbers)	<ul style="list-style-type: none"> • Adding, subtracting, multiplying and dividing negative numbers • Understanding absolute value • Solving expressions using the order of operations • Plotting points on a four-quadrant graph
Data Distributions (Describing variability and comparing groups)	<ul style="list-style-type: none"> • Calculate the mean, median, and mode of a set of data • Choose the appropriate sample size for a population • Represent data accurately on a graph