

Mathematics Curriculum Map Overview

Module: Topic	Skills	Approximate Weeks of Study
Module 1: Number System	<ul style="list-style-type: none"> • Add, subtract, multiply, and divide decimals and whole numbers • Develop strategies for writing equivalent fractions using least common multiple. • Find greatest common factor of two whole numbers • Multiply and divide fractions and mixed numbers • Use positive and negative numbers to describe quantities with opposite directions or values • Use coordinates and absolute value to find distances between points on a coordinate plane 	40 days total (20 days Operations, 20 days Rational Numbers)
Module 2: Ratios and Proportional Relationships	<ul style="list-style-type: none"> • Relate rate and ratio situations and connect them to multiplication and division. • Solve unit rate problems including those involving unit pricing and constant speed. • Graph data from tables. • Solve real-world problems involving rates, ratios, and proportions. 	30 days
Module 3: Expressions and Equations	<ul style="list-style-type: none"> • Write and solve expressions involving exponents. • Read, write, and solve expressions and use properties of operations to recognize when letters stand for numbers. • Write inequalities to show real world mathematical situations and graph the answers on a number line. • Use graphs, tables, and equations to show and analyze relationships between variables. 	40 days
Module 4: Geometry	<ul style="list-style-type: none"> • Using formulas, find the area of triangles, parallelograms, and trapezoids. • Draw polygons on a graph using a coordinate plane with given coordinates. • Solve real world and mathematical problems involving volume. • Represent prisms and pyramids using nets made from rectangles and triangles and then finding the area of the nets. 	20 days

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Module: Topic	Skills	Approximate Weeks of Study
Module 5: Statistics and Probability	<ul style="list-style-type: none">• Understand that a set of data can be described by its center, spread, and overall shape.• Recognize that a measure of center of data, such as mean and median summarizes a set of data with a single number.• Graph data on dot plots, histograms, and box plots.• Display and interpret real world data.	15 days