

SCOPE AND SEQUENCE

Unit	Title/Covered	Unit	Title/Covered
Unit 1	Variables, Expressions and Integers	Unit 7	Ratios, Rates, and Proportions
	Variables and Algebraic Expressions		Ratios and Rates
	Word Expressions		Unit Rates
	Equivalent Expressions		Equivalent Ratios & Rates using Conversion Factors
	Powers & Exponents		Proportional Relationships
	Order of Operations		Proportions using cross products
	Simplifying Algebraic Expressions		Similar figures
Unit 2	Integers		Proportions to determine scale drawings
	Integers and Absolute Value	Unit 8	Percentages
	Comparing & Ordering Integers		Fractions and decimals to percentages
	Adding Integers		Percentages and proportions
	Subtracting Integers		Problems using the percent equation
	Multiplying and Dividing Integers		Percent of Change
	Inequalities on a Number Line		Real world problems
	Integers within a Coordinate Grid		Simple and compound interest
Unit 3	Properties and Introduction to Equations	Unit 9	Functions and Linear Functions
	Properties of Addition & Multiplication		Patterns
	Distributive property		Function Tables
	Terms, Constants, Coefficients in Equations		Graphing Functions
	Modeling One Step Equations		Linear equations, functions, and graphs
	One Step Equations – Addition & Subtraction		Linear Inequalities
	One Step Equations – Multiplication & Division	Unit 10	Real Numbers, Square Roots, Pythagorean Theorem, Exponents
Unit 4	Multi Step Equations and Inequalities		Real Numbers
	Modeling Two Step Equations		Squares & Square Roots
	Multi Step Equations		Pythagorean Theorem
	Combining Like Terms in Equations		Rules of Exponents
	Two Variable Equations		Scientific Notation
	Linear Inequalities -Addition & Subtraction	Unit 11	Angles, Line, Measure, Area, & Volume
	Linear Inequalities – Multiplication & Division		Polygons
Unit 5	Factors		Line & Angle relationships
	Prime & Composite Numbers		Perimeter of Polygons
	Prime Factorization		Area of Polygons
	Greatest Common Factor		Surface area of polygons
	Fractions in the Simplest Form		Volume of polygons
	Least Common Multiple		Translations, Reflections, Rotations
	Equivalent Fractions	Unit 12	Data Analysis and Probability
	Fraction Decimal Equivalents		Simple and experimental probability
Unit 6	Rational Numbers		Probabilities of compound events
	Rational & Irrational Numbers		Organized lists and tree diagrams
	Adding & Subtracting Like Fractions		Combinations & Permutations
	Adding & Subtracting Unlike Fractions		Dependent and independents in an event
	Multiplying Fractions		Random, representative and biased samples
	Dividing Fractions		Mean, Median, Mode
	Inequalities with Rational Numbers		Stem and leaf, box and whiskers, histograms