**7th Grade**

**Scope & Sequence**

**Unit 1: Number Sense (12 days)**

* Divisibility Rules
* Prime Factorization
* GCF & LCM
* Powers & Exponents
* Scientific Notation
* Square Roots
* Properties (commutative, associative, identity, distributive, mult inverse, zero product)

**Unit 2: Integers (14 days)**

* Integers & Absolute Value
* Coordinate Plane
* Add Integers
* Subtract Integers
* Multiply & Divide Integers
* Order of Operations
* Evaluating Expressions

**Unit 3: Rational Numbers (13 days)**

* Decimal Operations
* Terminating & Repeating Decimals
* Compare & Order Rational Numbers
* Add Fractions & Mixed Numbers
* Subtract Fractions & Mixed Numbers
* Add & Subtract Rational Numbers
* Multiply Rational Numbers
* Divide Rational Numbers

**Unit 4: Ratios, Rates, & Proportions (10 days)**

* Ratios
* Rates
* Unit Rates
* Solving Proportions
* Scale Drawings
* Similar Figures
* Wildlife Sampling

**Unit 5: Percent (15 days)**

* Benchmark Percents
* Fractions, Decimals, & Percent
* Percent of a Number
* Estimating with Percents
* Percent Proportion
* Percent of Change
* Sales Tax & Tip
* Discount & Markup
* Simple Interest

**Unit 6: Measurement (7 days)**

* Metric System
* Converting Metric Units
* Customary System
* Converting Customary Units
* Unit Analysis

**Unit 7: 2-D Geometry (17 days)**

* Geometry Basics
* Measuring & Classifying Angles
* Angle Relationships
* Parallel Lines
* Triangles
* Quadrilaterals
* Polygons & Angles
* Pythagorean Theorem
* Perimeter & Area of parallelograms, triangles, trapezoids, & circles
* Perimeter & Area of Composite Figures

**Unit 8: 3-D Geometry & Transformations (12 days)**

* 3-D Figures
* Volume of Prisms
* Volume of Cylinders
* Surface Area of Prisms
* Surface Area of Cylinders
* Translations
* Reflections
* Rotations

**Unit 9: Equations & Inequalities (13 days)**

* One-Step Addition Equations
* One-Step Subtraction Equations
* One-Step Multiplication Equations
* One-Step Division Equations
* Two-Step Equations
* Inequalities
* Addition & Subtraction Inequalities
* Multiplication & Division Inequalities

**Unit 10: Linear Functions (9 days)**

* Rate of Change
* Slope
* Direct Variation
* Graphing from Tables
* Function Notation
* Arithmetic Sequences

**Unit 11: Data Analysis & Statistics (13 days)**

* Stem & Leaf Plots
* Frequency Tables & Histograms
* Circle Graphs
* Measures of Central Tendency
* Box & Whisker Plots
* Scatterplots
* Select Appropriate Display

**Unit 12: Probability (11 days)**

* Probability
* Sample Spaces
* Counting Outcomes
* Independent & Dependent Events
* Permutations
* Combinations