Scope and Sequence

UNIT A NUMBERS AND OPERATIONS

Module 1 Number Sense

1.1 Order of Operations
1.2 Divisibility Rules
1.3 Properties of Addition and Multiplication and Inverse Operations
1.4 Distributive Property
1.5 Estimation

Module 2 Whole Number Operations

2.1 Large Numbers: Addition
2.2 Large Numbers: Subtraction
2.3 Large Numbers: Multiplication
2.4 Large Numbers: Division
2.5 Problem Solving Strategies

Module 3 Integers

3.1 Integers and Absolute Value
3.2 Adding Integers
3.3 Subtracting Integers
3.4 Multiplying and Dividing Integers
3.5 Solving Problems with Integers

Module 4 Fractions, Decimals, Percents, and Factors

4.1 Concepts of Fractions, Ratios, and Percents
4.2 Concepts of Decimal Place Value and Fraction and Percent Equivalents
4.3 Factors and Prime Factorization
4.4 Prime Factorization, GCF, and LCM
4.5 Simplifying and Converting Fractions

Module 5 Decimal Operations, Operations, and Powers

5.1 Rounding and Comparing Decimals
5.2 Converting, Comparing, and Ordering
5.3 Adding and Subtracting Decimals
5.4 Multiplying Decimals
5.5 Dividing Decimals
5.6 Exponents and Powers
5.7 Scientific Notation

Module 6 Computational Fluency of Fractions

6.1 Adding and Subtracting Fractions with Like Denominators
6.2 Adding Fractions with Unlike Denominators
6.3 Subtracting Fractions with Unlike Denominators
6.4 Adding and Subtracting Mixed Numbers
6.5 Multiplying Fractions
6.6 Dividing Fractions

Module 7 Ratio, Proportion, and Percent

7.1 Square Roots
7.2 Finding Percents
7.3 Decimal and Percent Equivalents
7.4 Ratios, Rates, and Proportional Reasoning
7.5 Percent Proportions
7.6 Using Percent Equations
7.7 Problem Solving with Percents

UNIT B GEOMETRY

Module 8 Points, Lines, Angles, and Triangles

8.1 Language of Geometry
8.2 Angle Classification and Line Relationships
8.3 Angle Relationships and Parallel Lines
8.4 Triangles
8.5 Congruent Triangles
8.6 Similar Triangles
8.7 Right Triangles

Module 9 Characteristics of Geometric Shapes

9.1 Polygons
9.2 Quadrilaterals
9.3 Circles
9.4 Similar Polygons
9.5 Inductive and Deductive Reasoning

Module 10 Coordinate Geometry and Spatial Visualization

10.1 Points in a Coordinate Plane
10.2 Classifying Geometric Figures Using Points
10.3 Coordinate Geometry
10.4 Three-Dimensional Shapes
10.5 Building Models

Module 11 Transformations of Shapes

11.1 Translations and Reflections
11.2 Rotations
11.3 Dilations
11.4 Symmetry
11.5 Tessellations

UNIT C MEASUREMENT

Module 12 Attributes and Tools

12.1 Measurement Systems
12.2 Same System Conversions
12.3 Measurement: Time
12.4 Measurement: Distance
12.5 Measurement: Weight and Mass

Module 13 Perimeter, Area, and Volume

13.1 Perimeter and Circumference
13.2 Area
13.3 Area: Irregular Shapes
13.4 Surface Area: Prisms, Cylinders, and Spheres
13.5 Volume: Prisms, Cylinders, and Spheres
13.6 Surface Area: Pyramids and Cones
13.7 Volume: Pyramids and Cones