



Topical Outline and Student Learning Goals

1. Module 1: Whole Numbers and The Language of Algebra
 - 1.1 Whole Number Review
 - I can round whole numbers.
 - I can perform operations on whole numbers.
 - 1.2 The Language of Algebra and Order of Operations
 - I can change between exponential and expanded form of an exponent.
 - I can simplify expressions using the order of operations.
 - 1.3 Evaluating, Simplifying, and Translating Expressions
 - I can translate between words and algebraic notation.
 - I can evaluate expressions given assigned values.
 - I can combine like terms.
 - 1.4 Solve One Step Equations
 - I can solve one step equations using addition and subtraction.
 - 1.5 Finding Multiples and Factors
 - I can generate multiples of a number.
 - I can determine all factors of a number.
 - 1.6 Prime Factorization and Least Common Multiple
 - I can find the least common multiple of two numbers.
 - I can find the prime factorization for a number.
2. Module 2: Integers and Graphing
 - 2.1 Introduction to Integers
 - I can compare integers.
 - I can simplify absolute value expressions.
 - 2.2 Adding Integers
 - I can simplify expressions involving the addition of integers.
 - I can solve applications involving the addition of integers (including algebraic applications).
 - 2.3 Subtracting Integers
 - I can simplify expressions involving the subtraction of integers.
 - I can solve applications involving the subtraction of integers (including algebraic applications).
 - 2.4 Multiplying and Dividing Integers
 - I can simplify expressions involving the multiplication and division of integers.
 - I can simplify integer expressions using the order of operations.
 - I can evaluate algebraic expressions using integers.
 - 2.5 Solving One Step Equations
 - I can solve one step equations using additive inverses with integer solutions.
 - I can solve one step equations using the division property.
 - 2.6 Graphing
 - I can navigate the rectangular coordinate system.
 - I can plot a point using an ordered pair.

3. Module 3: Fractions
 - 3.1 Introduction to Fractions
 - I can convert between improper fractions and mixed numbers.
 - I can create equivalent fractions in greater terms.
 - I can reduce fractions to lowest terms.
 - 3.2 Multiplying and Dividing Fractions
 - I can multiply fractions.
 - I can divide fractions.
 - 3.3 Multiplying and Dividing Mixed Fractions, and Complex Fractions
 - I can multiply and divide mixed numbers.
 - I can simplify complex fractions.
 - I can simplify rational expressions with the order of operations.
 - 3.4 Adding and Subtracting Fractions with Like Denominators
 - I can add or subtract fractions with the same denominator.
 - 3.5 Adding and Subtracting Fractions with Unlike Denominators
 - I can determine the least common denominator for two fractions.
 - I can add or subtract fractions with different denominators.
 - 3.6 Adding and Subtracting Mixed Numbers
 - I can add or subtract mixed numbers.
 - 3.7 Solving Equations Containing Fractions
 - I can solve fraction equations using the addition/ subtraction property of equality.
 - I can solve fraction equations using the division property, expressing fraction solutions in simplest form.
 - I can solve an equation with a fraction coefficient.
4. Module 4: Decimals and Percent
 - 4.1 Writing and Identifying Decimals
 - I can convert from decimal to fraction notation,
 - I can order and compare decimals
 - I can round decimals to an indicated place value.
 - 4.2 Decimal Operations
 - I can carry out basic operations with decimal values.
 - I can multiply or divide a decimal by a power of 10.
 - I can solve money-based applications.
 - 4.3 Order of Operations with Decimals and Fraction Relationships
 - I can apply the order of operations to expressions containing both decimals and fractions.
 - 4.4 Solving Equations with Decimals
 - I can solve one step equations that include decimal values.
 - 4.5 Writing Percent
 - I can convert between decimals and percents.
 - I can convert between fractions and percents.
 - 4.6 Solving Percent Problems
 - I can identify the parts in a percent equation.
 - I can solve percent equations for an unknown value.
 - 4.7 Percent Applications
 - I can solve application questions involving sales tax.
 - I can solve application questions involving discounts.
 - I can solve percent change problems.

- 4.8 Simple Interest
 - I can solve basic simple interest questions.
 - I can solve simple interest questions for values other than I.
 - I can solve simple interest applications that give the unit of time in months.
- 5. Module 5: Multi-Step Linear Equations (Algebra)
 - 5.1 Distributive Property
 - I can apply the distributive property to an expression.
 - I can simplify an expression using the distributive property.
 - 5.2 Solving Equations with Distributing and Like Terms (same side)
 - I can solve two step equations. .
 - I can solve equations with like terms on the same side of the equal sign.
 - I can solve equations with distributing and like terms on the same side of the equal sign.
 - 5.3 Multi-Step Equations with Variables on Both Sides and Eliminating Fractions
 - I can solve equations with variables on both sides of the equation.
 - I can use a fraction clearing strategy for solving equations.
 - 5.4 Using Equations to Solve Applications
 - I can write an equation and use it to solve an application question.
 - I can solve comparison-based application questions.
 - 5.5 Coin Mixture Applications
 - I can use equations to solve coin mixture problems.
- 6. Module 6: Geometry
 - 6.1 Angle Relationships
 - I can apply the definitions of supplementary and complementary angles to solve problems.
 - I can apply the properties of the angles of a triangle to solve problems.
 - 6.2 Square Root, Pythagorean Theorem, and Similar Shapes
 - I can compute square roots.
 - I can apply the pythagorean theorem to find the length of a missing side of a right triangle.
 - I can use the properties of similar shapes to find unknown measurements.
 - 6.3 Area and Perimeter for Squares, Rectangles, and Triangles
 - I can compute the area and perimeter for rectangles and triangles.
 - I can apply an algebraic process to find missing information about a rectangle or triangle.
 - 6.4 Area and Circumference for Circles, and Irregular Figures
 - I can compute area and circumference for circles.
 - I can determine area and perimeter for irregular shapes.