Transitions Math
Scope & Sequence

Unit 1 - Foundations of Algebra (15 days)

    1.1. Signed Numbers, Exponents and Order of Operations

    1.2. Prime Numbers, GCF and LCM

    1.3. Fractions

    1.4. Decimals and Percentages

    1.5. Number Line and Absolute Value

    1.6. Applications Using Units, Rates and Proportions

Unit 2 - Basic Geometry (10 days)

    2.1. Properties of Simple Geometric Figures

    2.2. Coordinate Geometry

    2.3. Pythagorean Theorem and Similar Triangles

Unit 3 - Exponents (15 days)

    3.1. Integer Exponents

    3.2. Square Roots

    3.3. Roots and Rational Exponents

Unit 4 - Polynomials (13 days)

    4.1. Add and Subtract Polynomials

    4.2. Multiply Polynomials

    4.3. Factor Polynomials

Unit 5 - Rational Expressions (16 days)

    5.1. Simplify Rational Expressions

    5.2. Multiply and Divide Rational Expressions

    5.3. Add and Subtract Rational Expressions

Unit 6 - Linear Equations and Inequalities (17 days)

    6.1. Solve Linear Equations in one Variable

    6.2. Solve Multivariable Linear Equations for one of their Variables

    6.3. Applications of Linear Equations

    6.4. Solve Linear Inequalities in one Variable

Unit 7 - Lines (12 days)

      7.1. Slopes and Graphs of Lines
      7.2. Equations and Graphs of Lines
      7.3. Parallel and Perpendicular Lines

Unit 8 - Quadratic Equations and Functions (18 days)

      8.1. Solve Quadratic Equations
      8.2. Completing the Square
      8.3. Graph Quadratic Functions
      8.4. Applications of Quadratic Equations

Unit 9 - Systems of Linear Equations (10 days)

      9.1. Solve Systems of Linear Equations by Graphing
      9.2. Solve Systems of Linear Equations Analytically

Unit 10 - Additional Topics (10 days)

      10.1. Functions
      10.2. Solve Rational, Radical and Absolute Value Equations