

Mathematics Scope and Sequence
Vashon Island High School: Algebra

First Trimester	Second Trimester	Third Trimester
<p>Tools of Algebra (Ch. 1) Using Variables Exponents and Order of Operations Exploring Real Numbers Adding Real Numbers Subtracting Real Numbers Multiplying and Dividing Real Numbers Distributive Property Properties of Real Numbers Graphing Data on The Coordinate Plane</p> <p>Solving Equations (Ch. 2) Solving One-step Equations Solving Two-step Equations Solving Multi-step Equations Equations with Variables on Both Sides Equations and Problem Solving Formulas Using Measures of Central Tendency</p> <p>Solving Inequalities (Ch.3) Inequalities and Their Graphs Solving Inequalities Using Multiplication and Division Solving Multi-step Inequalities Compound Inequalities Absolute Value Equations and Inequalities</p> <p>Solving and Applying Proportions(Ch. 4) Ratio and Proportions Proportions and Similar Figures Proportions and Percent Equations Percent of Change Applying Ratios to Probability Probability of Compound Events</p>	<p>Graphs and Functions (Ch. 5) Relating Graphs to Events Relations and Functions Function Rules, Tables, and Graphs Writing a function Rule Direct Variation Describing Number Patterns</p> <p>Linear Equations and Their Graphs (Ch.6) Rate of Change and Slope Slope-Intercept Form Standard Form Point-Slope Form and Writing Linear Equations Parallel and Perpendicular Lines Scatter Plots and Equations of Lines Graphing Absolute Value Equations</p> <p>Systems of Equations and Inequalities (Ch.7) Solving Systems by Graphing Solving Systems Using Substitution Solving Systems Using Elimination Applications of Linear Systems Linear Inequalities Systems of Linear Inequalities</p> <p>Exponents and Exponential Functions (Ch.8) Zero and Negative Exponents Scientific Notation Multiplication Properties of Exponents More Properties of Exponents Division Properties of Exponents Geometric Sequences Exponential Functions Exponential Growth and Decay</p>	<p>Polynomials and Factoring (Ch.9) Adding and Subtracting Polynomials Multiplying and Factoring Multiplying Binomials Multiplying Special Cases Factoring Trinomials of the Type x^2+bx+c Factoring Trinomials of the type ax^2+bx+c Factoring Special Cases Factoring By Grouping</p> <p>Quadratic Equations and Functions (Ch.10) Exploring Quadratic Graphs Quadratic Functions Finding and Estimating Square Roots Solving quadratic Equations Factoring to Solve Quadratic Equations Completing the Square Using the Quadratic Formula Using the Discriminant Choosing a Model</p> <p>Radical Expressions and Equations (Ch. 11) Simplifying Radicals The Pythagorean Theorem The Distance and Midpoint Formulas Operations with Radical Expressions Solving Radical Equations Graphing Square Root Functions Trigonometric Ratios</p> <p>Rational Expressions (Ch. 12) Inverse Variations Graphing Rational Functions Simplifying Rational Functions Simplifying Rational Expressions Multiplying and Dividing Rational Expressions Dividing Polynomials Adding and Subtracting Rational Expressions Solving Rational Equations Counting Methods and Permutations Combinations</p>