

Mathematics Scope and Sequence
Vashon Island High School: Honors Geometry

First Trimester	Second Trimester	Third Trimester
<p>Brief (1 week) review of Algebra 1 1st and 2nd trimester curriculum (Chs. 1-10)</p> <p>Systems of linear equations (Ch. 11)</p> <ul style="list-style-type: none"> • Graphing method • Substitution method • Elimination method (add, subtract, multiply) • Matrix method (optional supplement) • Applications (digit, age, money, mixture, wind, and current) • Graphing systems of linear inequalities <p>Radicals (Ch. 12)</p> <ul style="list-style-type: none"> • Roots • Irrational roots • Fractions to decimals • Decimals to fractions • Adding and subtracting radicals • Multiplying and dividing radicals • Solving radical equations • Pythagorean Theorem • Distance formula • Coordinate geometry <p>Quadratic equations and functions (Ch. 13)</p> <ul style="list-style-type: none"> • Perfect squares • Completing the square • Quadratic formula • Graphing quadratic functions • Discriminant • Applications <p>Statistics (Ch. 14)</p> <ul style="list-style-type: none"> • Central tendency (mean, median, mode) • Variability (variance, standard deviation, range) • Graphing data (histograms, box and whisker plots, scatter plots, trend lines) <p>Probability (Ch. 14)</p> <ul style="list-style-type: none"> • Simple probability • Venn diagrams • Compound events 	<p>Elements of Geometry (Ch. 1)</p> <ul style="list-style-type: none"> • Points, lines, planes • Subsets of a line • Proofs in geometry <p>Angles (Ch. 2)</p> <ul style="list-style-type: none"> • Angles and their measure • Definitions • Theorems • Postulates • Proofs <p>Parallel and Perpendicular Lines (Chs. 2 and 3)</p> <ul style="list-style-type: none"> • Right angles and perpendicular lines • Definitions • Theorems • Postulates • Proofs <p>Congruent Triangles (Ch. 4)</p> <ul style="list-style-type: none"> • Congruence of triangles • Proofs • CPCTC • Isosceles triangles <p>Applying Congruent Triangles: Parallelograms (Ch. 5)</p> <ul style="list-style-type: none"> • Properties of parallelograms • Proofs • Rectangles, Rhombuses, Squares • Trapezoids • Triangle inequalities 	<p>Similar Polygons (Ch. 6)</p> <ul style="list-style-type: none"> • Definitions • Ratio and Proportion • Similar Polygons • Proving triangles are similar • Segments divided proportionally <p>Right Triangles (Ch. 7)</p> <ul style="list-style-type: none"> • Altitude and hypotenuse of a right triangle • Pythagorean theorem • Special right triangles • Rectangular solids • Trigonometric ratios (sine, cosine, tangent) <p>Circles (Ch. 8)</p> <ul style="list-style-type: none"> • Circles and lines • Tangents • Arcs and central angles • Arcs and chords • Inscribed angles • Other angles • Lengths of segments <p>Areas and Volumes (Ch. 9)</p> <ul style="list-style-type: none"> • Rectangles • Parallelograms and triangles • Trapezoids • Regular polygons • Circumference • Circles • Right prisms • Regular pyramids • Right circular cylinders and cones <p>Constructions and Loci (Ch. 10)</p> <ul style="list-style-type: none"> • Basic constructions • Loci (optional depending on time)