



Geometry Curriculum Map

UNIT 1 – GEOMETRY BASICS	
1-1	Nets and Drawings for Visualizing Geometry
1-2	Points, Lines, and Planes
1-3	Measuring Segments
1-4	Measuring Angles
1-5	Exploring Angle Pairs
1-6	Classifying Polygons
1-7	Midpoint and Distance in the Coordinate Plane
1-8	Perimeter Circumferences and Area
1-9	Construction

UNIT 2 – REASONING AND PROOF	
2-1	Inductive and Deductive Reasoning
2-2	Logic
2-3	Proving Theorems
2-4	Algebraic Proofs
2-5	Theorems About Angles and Perpendicular Lines
2-6	Planning a Proof

UNIT 3 – PARALLEL AND PERPENDICULAR LINES	
3-1	Identify Pairs of Lines and Angles
3-2	Use Parallel Lines and Traversals

3-3	Prove Lines Parallel
3-4	Find and Use Slopes of Lines
3-5	Write and Graph Equations of Lines
3-6	Bonus Lesson: Prove Theorems about Perpendicular Lines

UNIT 4 – CONGRUENT TRIANGLES	
4-1	Congruent Figures
4-2	Triangle Congruency by SSS and SAS
4-3	Triangle Congruency by ASA and AAS
4-4	Using Corresponding Parts of Congruent Triangles
4-5	Isosceles and Equilateral Triangles
4-6	Congruence in Right Angles
4-7	Bonus Lesson: Congruence in Overlapping Triangles

UNIT 5 – RELATIONSHIPS WITH TRIANGLES	
5-1	Midsegments of Triangles
5-2	Perpendicular and Angle Bisectors
5-3	Bisectors in Triangles
5-4	Medians and Altitudes
5-5	Indirect Proof
5-6	Inequalities in One Triangle
5-7	Inequalities in Two Triangles



UNIT 6 – THE POLYGON-ANGLE SUM THEOREMS	
6-1	The Polygon-Angle Sum Theorems
6-2	Properties of Parallelograms
6-3	Proving that a Quadrilateral is a Parallelogram
6-4	Properties of Rhombus Rectangles and Squares
6-5	Conditions of Rhombuses, Rectangles and Squares
6-6	Trapezoids and Kites
6-7	Polygons in the Coordinate Plane
6-8	Applying Coordinate Geometry
6-9	Proofs Using Coordinate Geometry

UNIT 7 – SIMILARITY	
7-1	Ratios and Proportions
7-2	Similar Polygons
7-3	Proving Triangles are Similar
7-4	Similarity in Right Triangles
7-5	Proportions in Triangles

UNIT 8 – RIGHT TRIANGLES AND TRIGONOMETRY	
8-1	The Pythagorean Theorem and its Converse
8-2	Special Right Angles
8-3	Trigonometry
8-4	Angles of Elevation and Depression
8-5	Law of Cosines



8-6	Law of Sines
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UNIT 9 – TRANSFORMATIONS	
9-1	Translations
9-2	Reflections
9-3	Rotations
9-4	Congruence Transformations
9-5	Dilations
9-6	Solving Rotational Equations
9-7	Similarity Transformations

UNIT 10 – AREA	
10-1	Areas of Parallelograms and Triangles
10-2	Areas of Trapezoids, Rhombuses and Kites
10-3	Areas of Regular Polygons
10-4	Perimeter and Area of Similar Figures
10-5	Trigonometry and Area
10-6	Circles and Arcs
10-7	Areas of Circles and Sectors
10-8	Geometric Probability

UNIT 11 – SURFACE AREA AND VOLUME	
11-1	Spacing Figures and Cross Sections
11-2	Surface Areas of Cylinders and Prisms

11-3	Surface Areas of Pyramids and Cones
11-4	Volumes of Prisms and Cylinders
11-5	Volume of Pyramids and Cones
11-6	Surface Areas and Volumes of Spheres
11-7	Areas and Volumes of Similar Solids

UNIT 12 – CIRCLES	
12-1	Tangent Lines
12-2	Chords and Arcs
12-3	Inscribed Angles
12-4	Angle Measures and Segment Lengths
12-5	Circles in the Coordinate Plane
12-6	Locus A Set of Points

UNIT 13 – PROBABILITY	
13-1	Experimental and Theoretical Probability
13-2	Probability Distributions and Frequency Tables
13-3	Permutations and Combinations
13-4	Compound Probability
13-5	Probability Models
13-6	Conditional Probability Formulas
13-7	Modeling Randomness