**Geometry Curriculum Map**

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |

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| **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** |