

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 Circumference and Area
- 1-9 Constructions



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 Transversals
- 3-3 Prove Lines Parallel
- 3-4 Find and Use Slopes of Lines
- 3-5 Right and Graph Equations of Lines
- 3-6 Prove Theorems about Perpendicular Lines



UNIT 4 – Congruent Triangles

- 4-1 Congruent Figures
- 4-2 Triangle Congruence by SSS and SAS
- 4-3 Triangle Congruence by ASA and AAS
- 4-4 Using Corresponding Parts of Congruent Triangles
- 4-5 Isosceles and Equilateral Triangles
- 4-6 Congruence in Right Triangles
- 4-7 Congruence in Overlapping Triangles

UNIT 5 – Relationships within 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 and 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 Rhombuses 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 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 Triangles
- 8-3 Trigonometry
- 8-4 Angles of Elevation and Depression
- 8-5 Law of Cosines
- 8-6 Law of Sines

UNIT 9 - Transformations

- 9-1 Translations
- 9-2 Reflections
- 9-3 Rotations
- 9-4 Congruence Transformations
- 9-5 Dilations
- 9-6 Solving Rational 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 Perimeters and Areas 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 Space Figures and Cross Sections
- 11-2 Surface Areas of Prisms and Cylinders
- 11-3 Surface Areas of Pyramids and Cones
- 11-4 Volumes of Prisms and Cylinders
- 11-5 Volumes of Pyramids and Cones
- 11-6 Surface Area 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