

Geometry

Scope & Sequence

★ Unit 1 | Lines & Angles

- Topic 1:** Measuring Segments & Angles
- Topic 2:** Basic Constructions
- Topic 3:** Midpoint & Distance
- Topic 4:** Angle Relationships
- Topic 5:** Parallel Lines Cut by a Transversal
- Topic 6:** Slopes of Parallel & Perpendicular Lines

★ Unit 2 | Transformations

- Topic 1:** Reflections
- Topic 2:** Translations
- Topic 3:** Rotations
- Topic 4:** Composition & Classification of Rigid Motions
- Topic 5:** Symmetry

★ Unit 3 | Triangle Congruence

- Topic 1:** Congruence
- Topic 2:** Isosceles & Equilateral Triangles
- Topic 3:** Inequalities in One Triangle
- Topic 4:** SAS & SSS Congruence Criteria
- Topic 5:** ASA & AAS Congruence Criteria
- Topic 6:** Congruence in Right Triangles

★ Unit 4 | Quadrilaterals & Other Polygons

- Topic 1:** The Polygon Angle-Sum Theorem
- Topic 2:** Properties of Parallelograms
- Topic 3:** Proving a Quadrilateral is a Parallelogram
- Topic 4:** Special Parallelograms
- Topic 5:** Polygons in the Coordinate Plane

★ Unit 5 | Similarity

- Topic 1:** Dilations
- Topic 2:** Proving Triangles Similar
- Topic 3:** Proportions in Triangles

★ **Unit 6 | Right Triangles & Trigonometry**

Topic 1: Right Triangles & the Pythagorean Theorem

Topic 2: Introduction to Trigonometric Ratios

Topic 3: Using Trigonometric Ratios: Solve for Sides

Topic 4: Using Trigonometric Ratios: Solve for Angles

★ **Unit 7 | Circles**

Topic 1: Inscribing & Circumscribing Triangles

Topic 2: Circles in the Coordinate Plane

Topic 3: Arcs & Sectors

Topic 4: Lines Tangent to a Circle

Topic 5: Chords

Topic 6: Inscribed Angles

Topic 7: Secant Lines & Segments

★ **Unit 8 | Two- & Three-Dimensional Models**

Topic 1: Three-Dimensional Figures & Cross Sections

Topic 2: Volumes of Prisms & Cylinders

Topic 3: Pyramids & Cones

Topic 4: Spheres