

Geometry A Scope and Sequence

Suggested timeline	CCSS	Learning Target: Students will	Resources
Week 1	G.CO.A.1 Know precise definitions of angle based on the undefined notions of point, line, distance along a line.	Understand the basic tools of geometry: points, lines, planes, and angles.	1.1-1.5
Week 2	G.GPE.B.6 Find the point on a directed line segment between two given points that partitions the segment in a given ratio.	Measure and calculate the size of segments and angles. Determine the distance between two points, using values on the coordinate plane.	1.7-1.8
Week 3&4	Preparation for G.CO.C.9 Prove theorems about lines and angles. G.CO.C.10 Prove theorems about triangles. G.CO.C.11 Prove theorems about parallelograms.	Arrive at conclusions through logical reasoning and understand and logically construct proofs.	2.1-2.5
Week 5&6	G.CO.C.9 Prove theorems about lines and angles. G.CO.C.10 Prove theorems about triangles measures of interior angles of a triangle sum to 180° G.MG.A.3 Apply geometric methods to solve design problems	Understand the properties of parallel lines, including how angles made by them and a transversal are related. Understand the differences between parallel and perpendicular lines. They also should understand the nature of the interior and exterior angles of a triangle	3.1-3.5
Week 7&8	G.CO.C.10 Prove theorems about triangles. G.SRT.B.5 Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Understand the properties of congruent triangles, how to determine whether triangles are congruent, and how to use congruent triangles to solve problems	4.1-4.4
Week 9	G.SRT.B.5 Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Work with congruent triangles to solve problems and prove relationships in these triangles.	4.5-4.7
Week 10	G.CO.C.10 Prove theorems about triangles . . . the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length. G.SRT.B.5 Use congruence criteria for triangles to solve problems and to prove relationships in geometric figures. G.GPE.B.5 Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems. G.GPE.B.7 Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.	Use the properties and relationships of mid-segments of triangles to solve problems. Understand perpendicular bisectors and angle bisectors, and their properties. Use relationships from triangles formed using these Bisectors.	5.1-5.2

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Week 11&12	G.C.A.2 Identify and describe relationships among inscribed angles, radii, and chords. G.C.A.3 Construct the inscribed and circumscribed circles of a triangle	Use their understanding of circumcenters and inscribed and circumscribed circles of triangles. Understand relationships from triangles formed using medians and altitudes.	5.3-5.7