

Topic	Standards	Days	Highlights
Using a Rectangular Coordinate System	G.CO.10 ^t G.CO.11 ^t G.CO.1 G.CO.5 G.CO.12 G.GPE.4 G.GPE.5 G.GPE.7 G.MG.2	10 Days	Students investigate the properties of squares and use transformations of squares to construct a coordinate plane. They develop strategies for determining the perimeters and areas of rectangles, triangles, parallelograms, and composite plane figures on a coordinate plane.
Composing and Decomposing Shapes	G.CO.9 G.CO.10 G.CO.11 G.CO.12 G.CO.13 G.C.3	13 Days	Students investigate and conjecture about geometric figures. They use circles and their defining characteristics as the template upon which to construct lines, angles, triangles, and quadrilaterals.
Rigid Motions on a Plane	G.CO.1 G.CO.2 G.CO.3 G.CO.4 G.CO.5	11 Days	Using the intuitive understandings of rigid motions built in middle school, students learn the formal definitions of translations, reflections, and rotations.
Congruence Through Transformations	G.CO.6 G.CO.7 G.CO.8 G.CO.9	8 Days	This topic builds on the work of the previous topic and the work with triangles in middle school. Students use definitions of congruence through rigid motions to determine the minimum criteria for triangle congruence.
Justifying Line and Angle Relationships	N.RN.2 G.CO.9 G.CO.10 G.C.2 G.C.3 G.C.4 (+)	11 Days	Students are introduced to formal geometric reasoning. They learn how to write formal proofs and then many conjectures that they made in the previous topic.

Using Congruence Theorems	G.CO.10 G.CO.11 G.SRT.5 G.C.2	5 Days	Students will use the theorems that they proved in <i>Justifying Line and Angle Relationships</i> to prove additional theorems.
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Topic	Standards	Days	Highlights
Similarity	G.SRT.1 G.SRT.1a G.SRT.1b G.SRT.2 G.SRT.3 G.SRT.4 G.SRT.5 G.SRT.6	12 Days	Students build on what they know about rigid motion transformations to formally define similarity transformations.
Trigonometry	G.SRT.6 G.SRT.7 G.SRT.8	11 Days	Students begin exploring the relationships between the side lengths of similar right triangles.
Circles and Volume	G.C.1 G.C.5 G.GMD.1 G.GMD.3 G.GMD.4 G.MG.1 G.MG.2	7 Days	Students use similarity transformations to prove that all circles are similar. Students use volume and surface area of geometric solids to solve real-world problems.
Conic Sections	A.CED.2 A.REI.7 F.TF.8 G.GPE.1 G.GPE.2 G.GPE.3 (+) G.GMD.4	12 Days	Students begin by recalling the Pythagorean Theorem and using it to write equations of circles on a coordinate plane.
Independence and Conditional Probability	S.CP.1 S.CP.2 S.CP.7 S.CP.8 (+)	4 Days	Students are introduced to compound probability.

Computing Probabilities	S.CP.3 S.CP.4 S.CP.5 S.CP.6 S.CP.9 (+) S.MD.6 S.MD.7	7 Days	Students encounter more compound probability concepts and counting strategies.
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