

Unit	Sub Units	MCCR Standard	I can...(supporting videos, online resources)	Text Reference
1: Constructions and Rigid Transformations 18 days	1.1: Vocabulary and Constructions	G.CO.1 G.CO.12	<ul style="list-style-type: none"> define angles, perpendicular lines and line segments using the undefined notions of point, line and distance. (KHAN Academy: Definitions) copy a segment. (https://www.mathopenref.com/constcopysegment.html) copy an angle. (https://www.mathopenref.com/constcopyangle.html) bisect a segment. (https://www.mathopenref.com/constbisectline.html) bisect an angle. (https://www.mathopenref.com/constbisectangle.html) construct perpendicular lines. (https://www.mathopenref.com/constperpextpoint.html) apply the midpoint (KHAN Academy: Midpoint) and distance formula (KHAN Academy: Distance Formula) on a coordinate plane. understand and apply that any point on a perpendicular bisector of a segment is equidistant from the endpoints of the segment. write and solve algebraic equations for geometric figures. (Review Material: Complementary and Supplementary Angles; Angle Relationship Review) 	1.1 1.2 1.3 1.4 1.5
	1.2: Introduction to Proofs	G.CO.9 G.MG.3	<ul style="list-style-type: none"> write algebraic proofs. justify my geometric reasoning in formal proofs. write proofs involving segments. write proofs involving angles. prove vertical angles are congruent. (Vertical Angles Review; Vertical Angle Proof) 	2.5 2.6 2.7 2.8
	1.3: Parallel Lines and Transversals	G.CO.1 G.CO.9 G.CO.12	KHAN Academy: Angles Formed By Parallel Lines cut by Transversal (ALL) <ul style="list-style-type: none"> define parallel lines using the undefined notions of point, line and distance. understand and apply transversal crosses parallel lines, corresponding angles are congruent. prove that when a transversal crosses parallel lines, alternate interior angles are congruent. prove two lines are parallel. construct parallel lines. 	3.1 3.2 3.5
	1.4: Equations of Parallel and Perpendicular Lines	G.GPE.5	KHAN Academy: Parallel and Perpendicular Lines (ALL) <ul style="list-style-type: none"> determine if lines are parallel or perpendicular based on the slope of the line write an equation of a line parallel or perpendicular to a given line. 	3.3 3.4 3.6

	1.5: Points of Concurrency	G.C.3 G.CO.10	<ul style="list-style-type: none"> • construct an incenter. (KHAN Academy: Incenter) • construct a circumcenter. (KHAN Academy: Circumcenter) • define a median and altitude of a triangle. (KHAN Academy: Median and Centroid; Orthocenter) • prove the medians of a triangle meet at one point (centroid). (KHAN Academy: Centroid Proof) 	5.1 5.2
Unit 1 (cont.)	1.6: Rigid Transformations	G.CO.2 G.CO.3 G.CO.4 G.CO.5 G.CO.6	KHAN Academy: Rigid Transformation (Translations, Rotations, Reflections, Rigid Transformations Overview) <ul style="list-style-type: none"> • identify line and rotational symmetries in polygons. • construct reflections, translations, and rotations. • explicitly define reflections, translations, and rotations. (Define Transformations) • construct reflections, translations, and rotations in the coordinate plane (review rules). • determine the composition of transformations to map a given figure onto another. 	9.1 9.2 9.3 9.4 9.5
<p>The Quarter 1 Assessment will assess through this content. The Quarter 1 Assessment will be given during the AACPS assessment Window and will only utilize 1 curriculum day.</p>				