Unit 4: Parallel and Perpendicular Lines	~October 23-November 12

G.2 The student will use the relationships between angles formed by two lines intersected by a transversal to
a) prove two or more lines are parallel; and
b) solve problems, including practical problems, involving angles formed when parallel lines are intersected by a transversal.

G.4 The student will construct and justify the constructions of
b) the perpendicular bisector of a line segment;
c) a perpendicular to a given line from a point not on the line;
d) a perpendicular to a given line at a given point on the line;
g) line parallel to a given line through a point not on the line;

Topic	I can…	Resources
Slopes of Parallel and Perpendicular Lines	✓ determine whether two lines are parallel or perpendicular by comparing their slopes.	From Khan Academy https://www.khanacademy.org/math/geometry/hs-geo-analytic-geometry/hs-geo-parallel-perpendicular-lines/v/parallel-and-perpendicular-lines-intro?modal=1 https://www.khanacademy.org/math/geometry/hs-geo-analytic-geometry/hs-geo-parallel-perpendicular-lines/v/classify-lines?modal=1 https://www.khanacademy.org/math/geometry/hs-geo-analytic-geometry/hs-geo-parallel-perpendicular-eq/v/parallel-lines https://www.khanacademy.org/search?page_search_query=angles%2C%20parallel%20lines%2C%20and%20transversal From Math Open Ref https://www.mathopenref.com/tocs/paralleltoc.html https://www.mathopenref.com/constperplinepoint.html
Properties of Parallel Lines and Angle Relationships	✓ name the angle relationship when a line intersects two or more lines to create special angle pairs. ✓ determine if the special angle pairs formed by parallel lines and a transversal are congruent, supplementary, or both.	
Constructions of Parallel and Perpendicular lines	✓ identify constructions given some steps or the final product. ✓ make a construction using only a compass and straightedge.	
Proving Lines Parallel	✓ use certain angle pairs to decide whether two lines are parallel.	

		https://www.mathopenref.com/constperpextpoint.html https://www.mathopenref.com/constparallel.html Sample Assessment/Review with Solutions Sample Assessment Parallel Lines 19-20.pdf Unit 4 Sample Assessment Solutions.pdf