

Geometry (229) Unit 1–Capacity Matrix: The Tools of Geometry

MA.08.GAP.01.03-Understands supplementary, complementary, vertical, and adjacent angles. *Understand angle relationships: parallel lines cut by a transversal, angle sum and exterior angles of a triangle.* Taxonomy: Analysis (MAS: 2)

MA.14.GAP.01.03-Understands using theorems and multi-step reasoning to prove relationships in triangles, lines & angles and parallelograms. Taxonomy: Analysis (MAS: 2)

MA.04.GCS.01.03-Understands using coordinates to find perimeter of polygons and areas of triangles and rectangles. Understands using simple geometric theorems on a coordinate plane. Taxonomy: Analysis (MAS: 2)

Concept	You are able to ...	Required Work	Extra Practice/ Resources	Formative Assessments
A. Points, Lines, and Planes	<ul style="list-style-type: none"> <input type="checkbox"/> Identify points, lines, planes, collinear points, coplanar points and lines <input type="checkbox"/> Identify collinear points given a point and an equation of a line. <input type="checkbox"/> Use appropriate labels 	<ul style="list-style-type: none"> <input type="checkbox"/> Pg. 9 ex: 23-25, 32-34 <input type="checkbox"/> pgs. 16-18 ex: 25, 26, 30-33, 34, 44, 46, 49 	<ul style="list-style-type: none"> <input type="checkbox"/> pg.764 (Lesson1-2) ex: 1-7 <input type="checkbox"/> 1-2 Worksheet <u>Video</u> Khan Academy: ~Language and notation of basic geometry ~Lines, line segments, and rays ~Recognizing rays, lines, and line segments 	
B. Linear Measure	<ul style="list-style-type: none"> <input type="checkbox"/> Find the length of a segment on a number line. <input type="checkbox"/> Use the concept of betweenness to solve for missing measures/values <input type="checkbox"/> Determine congruent segments <input type="checkbox"/> Apply the segment addition postulate to solve for measures/values 	<ul style="list-style-type: none"> <input type="checkbox"/> pgs. 33-35 ex: 19, 21, 22-25, 38-40 	<ul style="list-style-type: none"> <input type="checkbox"/> Betweenness w.s. with videos <input type="checkbox"/> Segment Addition Postulate w.s. Khan Academy: ~Segment Addition 	<ul style="list-style-type: none"> <input type="checkbox"/> A/B Quiz

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C. Distance and Midpoints	<ul style="list-style-type: none"> <input type="checkbox"/> Find the distance between two points on a number line. <input type="checkbox"/> Find the distance between 2 point on the coordinate plane using the Pythagorean Theorem and the Distance Formula <input type="checkbox"/> Identify a segment bisector <input type="checkbox"/> Find the midpoint on a number line <input type="checkbox"/> Find the midpoint on the coordinate plane 	<ul style="list-style-type: none"> <input type="checkbox"/> Worksheet C 	<ul style="list-style-type: none"> <input type="checkbox"/> pg.765 (Lesson 1-4) ex:5-11 <input type="checkbox"/> pg.765 (Lesson1-5) <input type="checkbox"/> Midpoint w.s. Khan Academy ~Distance formula ~Midpoint of a Segment ~Algebraic midpoint of a segment exercise 	<ul style="list-style-type: none"> <input type="checkbox"/> C Quiz
D. Angle Measure	<ul style="list-style-type: none"> <input type="checkbox"/> Identify the vertex and the sides of an angle, congruent angles, angle bisector <input type="checkbox"/> Classify angles as right, acute, and obtuse <input type="checkbox"/> Solve for missing measure or value using congruent angles, angle bisector, opposite rays, and angle addition postulate 	<ul style="list-style-type: none"> <input type="checkbox"/> pgs. 50-51 ex: 17-28, 33-35 	<ul style="list-style-type: none"> <input type="checkbox"/> pg.765 (Lesson1-6) ex: 1-7 <input type="checkbox"/> 1-6 Worksheet <u>Videos</u> Khan Academy ~Acute right and obtuse angles 	<ul style="list-style-type: none"> <input type="checkbox"/> D Quiz
E. Angle Relationships	<ul style="list-style-type: none"> <input type="checkbox"/> Identify adjacent angles, linear pair, vertical angles, complementary angles, supplementary angles, perpendicular lines <input type="checkbox"/> Solve problems involving the above angles. 	<ul style="list-style-type: none"> <input type="checkbox"/> pgs. 59-60 ex: 15, 17, 18, 21, 24, 25, 28, 32 	<ul style="list-style-type: none"> <input type="checkbox"/> pg.766 (Lesson1-7) ex: 1-8 <input type="checkbox"/> 1-7 Worksheet <u>Videos</u> Khan Academy ~Vertical, adjacent and linearly paired angles ~Exploring angle pairs 	<ul style="list-style-type: none"> <input type="checkbox"/> E Quiz
		Review worksheet		Summative Test

- **Extra Videos on Your Teacher App: Chapters 1 and 2**