

03 Geometry Long Range Plans 2025-2026
Semester 2 (46 A-days, 46 B-days)

Day	Date	Learning Targets	Text	Standard	Assessments, Resources, and Activities	Notes
Topic #6 - Polygons & Quadrilaterals (8 days)						
Higher Order Questions:		<ul style="list-style-type: none"> •What can I discover about the relationship between sides and angle sum in a convex polygon? •How are properties of parallelograms used to solve problems? •How are properties of parallelograms used to classify quadrilaterals? •How are diagonals and angle measures related in kites and trapezoids? •How are diagonals and angle measures related in rectangles, rhombuses and squares? 	Vocabulary: interior angle, exterior angle, triangle, quadrilateral, pentagon, hexagon, heptagon, octagon, nonagon, decagon, dodecagon, n-gon, diagonal, parallelogram, isosceles trapezoid, kite, trapezoid, midsegment of a trapezoid, parallelogram, rectangle, rhombus, square, diagonal, consecutive angles		Theorems/Postulates: <ul style="list-style-type: none"> •Polygon Interior Angle-Sum Theorem •Polygon Exterior Angle-Sum Theorem •All properties of parallelograms, rectangles, rhombuses, squares, trapezoids (including isosceles), and kites found on the Quadrilateral Family Tree •Conditions of Special Parallelograms found on p.291 of the textbook 	
LINK TO MILC ACTIVITIES FOR TOPIC #6						
1	A: 1/6 B: 1/7	<ul style="list-style-type: none"> •I can use theorems related to polygon sum to find the measure of interior and exterior angles (and their sums) 	6-1		<ul style="list-style-type: none"> •Polygon Sum Exploration 	
2	A: 1/8 B: 1/9	<ul style="list-style-type: none"> •I can solve problems involving properties of parallelograms •I can understand the relationship between quadrilaterals on the Quadrilateral Family Tree 	6-3	KY.HS.G.6	<ul style="list-style-type: none"> •Quadrilateral Family Tree •Quadrilateral Flip Book 	Introduce the Quadrilateral Family Tree
3	A: 1/12 B: 1/13	<ul style="list-style-type: none"> •I can solve problems involving properties of rectangles 	6-5a	KY.HS.G.6	<ul style="list-style-type: none"> •Lesson Quiz 6-1 	
4	A: 1/14 B: 1/15	<ul style="list-style-type: none"> •I can solve problems involving properties of rhombuses 	6-5b	KY.HS.G.6		
5	A: 1/16 B: 1/20	<ul style="list-style-type: none"> •I can solve problems involving properties of squares •I can use properties of quadrilaterals to decide if statements involving quadrilaterals are true always, sometimes, or never 	6-5c 6-6	KY.HS.G.6	<ul style="list-style-type: none"> •Lesson Quiz 6-5a (Rectangles) 	
6	A: 1/21 B: 1/22	<ul style="list-style-type: none"> •I can solve problems involving properties of kites and trapezoids 	6-2	KY.HS.G.6	<ul style="list-style-type: none"> •Lesson Quiz 6-5b (Rhombuses) 	
7	A: 1/23 B: 1/26	<ul style="list-style-type: none"> •<i>All Topic #6B Learning Targets</i> 	ALL	ALL	<ul style="list-style-type: none"> •Review Activities 	
8	A: 1/27 B: 1/28	<ul style="list-style-type: none"> •<i>All Topic #6B Learning Targets</i> 	ALL	ALL	<ul style="list-style-type: none"> •Topic #6B Exam 	<i>Optional: Assign a self-guided review over proportions as homework today and skip Day 13</i>
Topic #7 - Similarity (7 days)						
Higher Order Questions:		<ul style="list-style-type: none"> •What is the relationship between the sides and angles of similar figures? •How can I use properties of similar figures to solve algebraic and real world problems? •How can I prove two triangles are similar? •How can I generalize properties of similar triangles to solve problems involving parallel segments and angle bisectors? 	Vocabulary: ratio, proportion, reflection, rotation, translation, dilation, similar, scale factor, proportionality statement, similarity statement, transversal, angle bisector		Theorems/Postulates: <ul style="list-style-type: none"> •Corresponding angles in ~ figures are congruent •Corresponding sides in ~ figures are proportional •Ratio of perimeters in ~ figures = scale factor •Ratio of areas in ~ figures = square of scale factor •AA~ Similarity Theorem •SAS~ Similarity Theorem •SSS~ Similarity Theorem •Side-Splitter Theorem •Corollary to Side-Splitter Theorem •Triangle Angle-Bisector Theorem •Triangle Midsegment Theorem 	
LINK TO MILC ACTIVITIES FOR TOPIC #7						
9	A: 1/29 B: 1/30	<ul style="list-style-type: none"> •Set up and solve proportions 	Supp 7-1*			If reviewed on Day 12 skip this day (unless you did not teach 7-1 last semester in the Transformations unit). Only do dilations from the origin.
10	A: 2/2 B: 2/3	<ul style="list-style-type: none"> •State the two properties of similar figures •Find the scale factor of similar figures •Find the ratio of perimeters of similar figures •Find the ratio of areas of similar figures 	7-1 7-2	KY.HS.G.9		

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11	A: 2/4 B: 2/5	•Use the 3 similarity theorems to prove triangles similar	7-3a	KY.HS.G.10 KY.HS.G.11	•Lesson Quiz Ratio and Proportion	Prove triangles similar using AA~, SSS~, and SAS~	
12	A: 2/6 B: 2/9	•Find missing sides and angles in similar figures	7-3b	KY.HS.G.10 KY.HS.G.11	•Lesson Quiz 7-1/7-2	Use properties of similar figures to solve for missing values (using equations and proportions)	
13	A: 2/10 B: 2/11	•Use the Altitude-on-Hypotenuse theorems to find missing values in right triangles	7-4	KY.HS.G.10 KY.HS.G.11			
14	A: 2/12 B: 2/13	•Use the 3 proportionality theorems to calculate segment lengths •Use the Triangle Midsegment Theorem to find missing segment/angle measures	7-5	KY.HS.G.11	•Lesson Quiz 7-3 (proving similar)		
15	A: 2/17 B: 2/18	•All Topic #7 Learning Targets	ALL	ALL	•Lesson Quiz 7-3 (using properties) •Review activities		
16	A: 2/19 B: 2/20	•All Topic #7 Learning Targets	ALL	ALL	•Topic #7 Exam	Give a review worksheet over the Pythagorean Theorem for HW following the test	
Topic #8 - Right Triangles and Trigonometry (8 days)							
Higher Order Questions: •How are the Pythagorean Theorem and trigonometry useful? •How do trigonometric ratios relate angle measures to side lengths of right triangles?			Vocabulary: Pythagorean triple, cosine, sine, tangent, trigonometric ratios, angle of depression, angle of elevation		Theorems/Postulates: •The Pythagorean Theorem and its Converse •Ratios of sides in 30°-60°-90° special right triangles •Ratios of sides in 45°-45°-90° special right triangles •SOH-CAH-TOA		
LINK TO MILC ACTIVITIES FOR TOPIC #8							
17	A: 2/23 B: 2/24	•I can simplify radicals	Supp		• Simplifying radicals envelope activity	Include simplifying single radicals, operations with radicals, and rationalizing the denominator	
18	A: 2/25 B: 2/26	•I can use the Pythagorean Theorem to find missing sides in right triangles •I can use the Converse of the Pythagorean Theorem to classify a triangle as acute, right, or obtuse	8-1a	KY.HS.G.11	• The Hypotenuse Heist (Digital)** • Pythagoras' Mystery Box (Kit)**	Include Pythagorean Triples; **Breakout games will need an additional day or could be used for review (and require a subscription to BreakoutEDU)	
19	A: 2/27 B: 3/2	•I can find missing sides in 30°-60°-90° special right triangles •I can find missing sides in 45°-45°-90° special right triangles	8-1b	KY.HS.G.11 KY.HS.G.12	• Exploration: Special Right Triangles		
20	A: 3/3 B: 3/4	•I can use SOH-CAH-TOA to find the sine, cosine, and tangent of an acute angle of a triangle •I can use trigonometry to find missing sides in right triangles	8-2a 8-2b	KY.HS.G.11 KY.HS.G.12	•Lesson Quiz 8-1a • Exploration: Trig Ratios		
21	A: 3/5 B: 3/6	•I can use trigonometry to find missing angles in right triangles	8-2c 8-5	KY.HS.G.12	•Lesson Quiz 8-1b		
22	A: 3/9 B: 3/10	•All Topic #8 Learning Targets	ALL	ALL	•Lesson Quiz 8-2	STEM Activity: "Measure a Distance"	
23	A: 3/11 B: 3/12	•All Topic #8 Learning Targets	ALL	ALL	•Topic #8 Exam		
24	A: 3/13 B: 3/16	FLEX DAY FOR SAT					
Topic #10 - Circles (10 days)							

FLEX DAY FOR ACT

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Day	Date	Learning Targets	Text	Standard	Assessments, Resources, and Activities	Notes
		Higher Order Questions: •How is the equation of a circle determined in the coordinate plane? •How is a tangent line related to the radius of a circle at the point of tangency? •How are chords related to their central angles and intercepted arcs? •How is the measure of an inscribed angle related to its intercepted arc? •How are the measures of angles, arcs, and segments formed by intersecting secant lines related?	Vocabulary: central angle, chord, inscribed angle, intercepted arc, major arc, minor arc, semicircle, point of tangency, secant, tangent to a circle		Theorems/Postulates: •Tangent-Radius Theorem (tangent is perp to radius at point of contact) •Two-Tangent Theorem (two tangents meeting an external point are congruent) •Congruent chords --> congruent arcs --> congruent central angles •Chords equidistant from center are congruent •If a diameter is perpendicular to a chord, then it bisects the chord •Inscribed Angles Theorem and corollaries •Angle-arc relationships for all angles with vertices on the center, on the circle, inside the circle but not on the center, and outside the circle •"Power Theorems" (relating segment lengths of chords, secants, and tangent segments of a circle)	
LINK TO MILC ACTIVITIES FOR TOPIC #10						
25	A: 3/17 B: 3/18	•I can write equations of circles •I can graph a circle •I can identify the radius and center from the equation of a circle	9-3	KY.HS.G.19		Give FAL Pre-Assessment as homework
26	A: 3/19 B: 3/23	•I can identify, describe, sketch, and name minor arcs, semicircles, and major arcs •I can solve problems involving central angles	10-1	KY.HS.G.16		No arc length or sector area
27	A: 3/24 B: 3/25	•I can write equations of circles •I can graph a circle •I can identify the radius and center from the equation of a circle	9-3	KY.HS.G.19	•FAL: Equations of Circles	Give FAL Post-Assessment as homework
28	A: 3/26 B: 3/27	•I can identify lines that are tangent to a circle using angle measures and segment lengths •I can solve problems involving tangent lines	10-2	KY.HS.G.16		Use the Pythagorean Theorem
29	A: 3/30 B: 3/31	•I can apply relationships between chords, arcs, and central angles •Find lengths of chords given the distance from the center of the circle and use this information to solve problems	10-3	KY.HS.G.16	•Lesson Quiz 10-1	
30	A: 4/1 B: 4/2	•I can solve problems related to angles with a vertex on the circle and their intercepted arcs	10-4	KY.HS.G.16	•Lesson Quiz 10-2	
31	A: 4/3 B: 4/14	•I can solve problems related angles with a vertex outside or inside (but not on the center) of a circle and their intercepted arcs	10-5a	KY.HS.G.16	•Lesson Quiz 10-3	
32	A: 4/15 B: 4/16	•I can recognize and apply segment length relationships formed by secants and tangents intersecting inside and outside the circle	10-5b	KY.HS.G.16	•Lesson Quiz 10-4	
33	A: 4/17 B: 4/20	•All Topic #10 Learning Targets	ALL	ALL	•Lesson Quiz 10-5a •Review activities	
34	A: 4/21 B: 4/22	•All Topic #10 Learning Targets	ALL	ALL	•Topic #10 Exam	Give Self-Guided Notes over vocabulary and classifying solids for homework
35	A: 4/23 B: 4/24	Algebra Review Unit (Preparation for Algebra 2)				Factoring when $a = 1$ (a not 1 if time permits)
36	A: 4/27 B: 4/28	Algebra Review Unit (Preparation for Algebra 2)				Solving systems of equations by substitution
37	A: 4/29 B: 4/30	Flexible Day (in case of NTI)				
38	A: 5/1 B: 5/4	Flexible Day (in case of NTI)				
39	A: 5/5 B: 5/6	Flexible Day (in case of NTI)				
40	A: 5/7 B: 5/8	Flexible Day (in case of NTI)				

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41	A: 5/11 B: 5/12	<i>Flexible Day (in case of NTI)</i>				
42	A: 5/13 B: 5/14	<i>Flexible Day for KSA Testing (Statistics Review material if time permits in your schedule)</i>				
43	A: 5/15 B: 5/18	<i>Final Exam Review</i>				
44	A: 5/20 B: 5/21	<i>Final Exams</i>				
45	A: 5/22 B: 5/26	<i>Final Exams</i>				
46	A: 5/27 B: 5/28	<i>FLEXIBLE LAST DAY IF NEEDED (after Memorial Day)</i>				

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