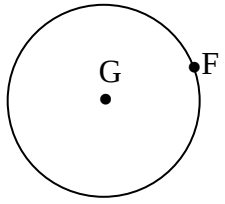
HOLT 2016-17 NAME _____ SECTION _____

GEOMETRY LAB
UNIT 11: CIRCLES

YOU WILL NEED GRAPH PAPER AND COLORED PENCILS

LESSON	TOPIC	BOOK / VIDEO	CCLS	HOMEWORK
Day 1	Lines Intersecting Circles Construction of a Tangent Line	11-1	G-C.1 G-C.2	P. 752-753 #11,13,16,18-22,26,27,31 CONSTRUCTION IN LESSON SUMMARIES
Day 2	Arcs, Central Angles, and Chords	11-2	G-C.2	P. 761 #15,25-30,38,39,48
Day 3	Perpendicular Bisectors of Chords; Arc Ratios; Quiz 1 (Days 1&2)	11-1 11-2	G-C.1 G-C.2	• P.761 # 31, 32,37,47,49 • SUPPLEMENTAL PROBLEMS IN NOTES
Day 4	Sector Area, Arc Length, Radian Measure	11-3	G-C.2 G-C.5	WORKSHEET 11-4
Day 5	Angles in a Circle	11-4 11-5	G-C.5	WORKSHEET 11-5
Day 6	More Properties of Inscribed Angles	11-4 (11-5)	G-C.2	P. 776-777 #12-15,17-21,26,27
Day 7	Interior & Exterior Angles	11-5	G-C.2	P. 787 #16-20,23,24,25,27,28, 31-33
Day 8	Mixed Angles Practice; Quiz 2 (Days 3-6)	11-4 11-5	G-C.2	WORKSHEET 11-8
Day 9	Segment Relationships in Circles: Chord-Chord Product	11-6	G-C.2	P. 796-797 #12,13,22,23,25
Day 10	Secant-Secant Product Secant-Tangent Product	11-6	G-C.2	P. 796-797 #17-21,25,27
Day 11	Circles in the Coordinate Plane	11-7	G-GPE.1 G-GPE.4	P. 802-804 NEED GRAPH PAPER #10,12,14,20,28,30,31,34,35,39
Day 12	Circle Equations with Completing the Square	11-7	G-GPE.1 G-GPE.4	WORKSHEET 11-12
Day 13	Using Circle Properties in Proofs		G-C.3 G-GPE.1	FINISH NOTES PACKET 11-13
Day 14	Review Day 1			CASTLE LEARNING ASSIGNMENT; COMPLETE LESSON SUMMARIES
Day 15	Review Day 2			FINISH REVIEW PACKET
T	TEST	TEST		TBD – REVIEW FOR EXAM BEGINS

DAY	MAIN POINTS / FORMULAS TO REMEMBER	QUESTIONS AFTER HMWK
11-1	*Draw two circles that meet each of the following criteria:* Tangent Circles Concentric Circles Congruent Circles *Draw two scenarios of circles with common tangent lines:* *Construct the Line Tangent to circle G at F:*  Also see the graphic organizer in Radii and Tangents	

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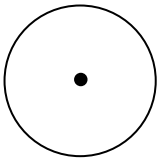
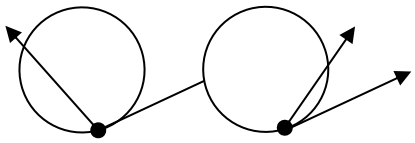
11-2 **11-3**	When relating central angles to their arcs, all measurements must be in _____. To use the Arc Addition Postulate, the arcs must be _____. • The sum of a major arc and its minor arc is _____. • The sum of all the arcs in a circle is _____. • The sum of all the arcs in a semi-circle is _____. • Arcs may also be in a _____ such as 1:3. Also see the graphic organizer for relationships in Arcs & Chords; Radii & Tangents; Other Geometric Relationships in a Circle	11-2 11-3
11-4	Central angles are measured in _____, sectors are measured in _____, and arc lengths are measured in _____. See Central Angle Proportions on graphic organizer.	
11-5	Note: as the vertex of the angle gets further from the center of the circle, the measure of the angle _____. *Draw a central, interior, inscribed, and exterior intercepting common arcs all together on the provided circle:* 	
11-6	See the graphic organizer for Angle-Arc Relationships; Other Geometric Relationships in a Circle; Inscribed Angles. Theorem: although not technically an inscribed angle, the angles pictured are equal to ____ the measure of its intercepted arc.  *Draw an inscribed angle that intercepts an arc of 360º. What did you draw?*	
11-7&11-8	See the graphic organizer for Angle-Arc Relationships	11-7 11-8
11-9 **11-10**	See the graphic organizer for Segment-Segment Relationships Note: I can only use the perpendicular bisector of a chord when the bisector goes through the _____ of the circle; otherwise, I will use the _____.	11-9 11-10
11-11 **11-12**	See graphic organizer for Equations of Circle Example of Completing the Square to write the equation of a circle: $x^2 + 6x + y^2 - 8x = 50$ Equation of this circle: _____;Center(,), radius=____	11-11 11-12
11-13	Circle Proofs – see the back of the graphic organizer for common reasons used in proofs. For similarity proofs, look for the criteria _____!	11-13 11-14
11-14 **11-15**	Review notes to myself:	11-15 11-16

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