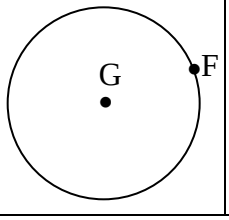
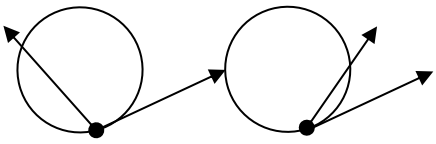
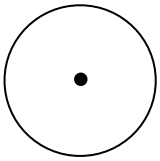
GEOMETRY
UNIT 11: CIRCLES

SHOW ALL WORK
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 • ARC RATIO PROBLEMS IN NOTES (DO ON SEPARATE PAPER)
Day 4	Sector Area, Arc Length, and Radian Measure	11-3	G-C.5	WORKSHEET 11-4
Day 5	Inscribed Angles	11-4 (11-5)	G-C.2	P. 776-777 #12-15,17-21,26,27
Day 6	Interior & Exterior Angles	11-5	G-C.2	P. 787 #16-20,23,24,25,27,28, 31-33
Day 7	Mixed Angles Practice; Quiz 2 (Days 3-6)	11-4 11-5	G-C.2	WORKSHEET 11-7
Day 8	Segment Relationships in Circles	11-6	G-C.2	P. 796-797 #12,17-22,25, 27
Day 9	Circles in the Coordinate Plane with Completing the Square	11-7	G-GPE.1 G-GPE.4	P. 802-804 NEED GRAPH PAPER #10,12,14,20,28,30,31,34,35,39 PLUS CTS PROBLEMS IN NOTES
Day 10	Circle Proofs		G-C.3 G-GPE.1	FINISH NOTES PACKET 11-10
Day 11	Review and Study Guide			FINISH REVIEW PACKET ; LESSON SUMMARIES; GRAPHIC ORGANIZER
T	TEST	TEST		TBD – REVIEW FOR EXAM BEGINS

GEOMETRY CLASS LESSON SUMMARIES FOR UNIT 11 **NAME: _____**

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	

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	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 360°. What did you draw?* 	
11-6	See the graphic organizer for Angle-Arc Relationships	
11-7	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:* 	
11-8	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	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 = ____	
11-10	Circle Proofs – see the back of the graphic organizer for common reasons used in proofs. For similarity proofs, look for the criteria _____!	
11-11		