# Geometry - Circles Part 2

Chapter 10 --- segments Section 2, 4, 5 May 6-13

#### Standards

Common Core: HSG-CO.A.1, HSG-CO.D.13, HSG-C.A.1, HSG-C.A.2, HSG-C.A.3, HSG-C.A.4, HSG-MG.A.1, 'HSG-MG.A.3, HSG-GPE.A.1.

HSG-GPE.B.4

#### CP Period 3 Geometry Timeline Schedule

Friday - May 3 --- Students take notes on the section 10.2 Angles/Arcs

Monday May 6 --- Review notes and assign 10.2 online bigideasmath.com

Tuesday --- Inscribed angles - Drawing discovery/verification activity

Wednesday --- Assign online 10.4 bigideasmath.com -- field trip for a few

Thursday --- Circumscribed angles - Notes and student journal examples

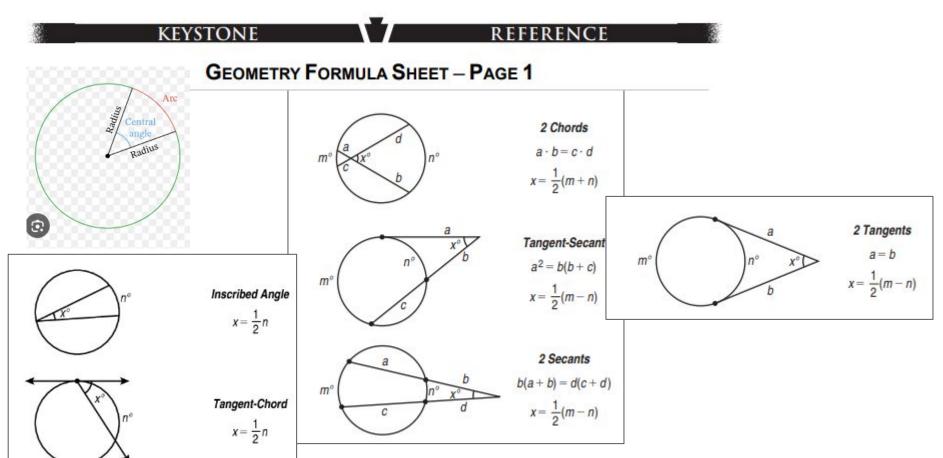
Friday --- Assign online 10.5 bigideasmath.com

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Next week Practice Monday/Tues. Test Wednesday May 15th

Then Review topics for Final Exam Exam on Friday May 24

### Formulas with x, m, n are the focus on angles for test



#### Section 10.2 Objectives & Vocabulary

Video Notes from textbook online app Examples 1-4

Student Journal pg. 287 # 1-11 as practice and examples

Geometry Lesson 10.2 – Day 1: Finding Arc Measures Essential Question: How are circular arcs measured?		
Lesson Objective(s): Students will find arc measures.	CC State	CC Mathematical
Students will identify congruent arcs.	Standards	Practice Focus
Students will prove circles are similar.		And the second second
Previous Learning: Students have explored and defined the different lines and segments that	HSG-C.A.1	MP2, MP5
intersect circles.	HSG-C.A.2	12 42 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5
New Vocabulary: central angle, minor arc, major arc, semicircle, measure of a minor arc,		
measure of a major arc, adjacent arcs, congruent circles, congruent arcs,		
similar arcs		

## Online Assignment - bigideasmath.com 10.2

	Finding	Arc Measur	es		
2	3	4	5	6	7
8	9	10	11	12	13
14	15	16	17	31	36
39	40	41	42		

#### Section 10.4 Objectives & Vocabulary

Video Notes from textbook online app Examples 1-4

Student Journal pg 293-296 Show the inscribed angle using tools

Student Journal pg. 297 # 1-7as practice and examples

Geometry	Lesson	10.4 -	Day 1:	Inscribed	<b>Angles</b>	and Polygons	3
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Essential Questions: How are inscribed angles related to their intercepted arcs? How are the angles of an inscribed quadrilateral related to each other?

Lesson Objective(s): Students will use inscribed angles. Students will use inscribed polygons.	CC State Standards	CC Mathematical Practice Focus
Previous Learning: Students have learned about the measures of angles and angles of polygons.  New Vocabulary: inscribed angle, intercepted arc, subtend, inscribed polygon, circumscribed circle	HSG-CO.D.13 HSG-C.A.2 HSG-C.A.3	MP3, MP6

### Online Assignment - bigideasmath.com 10.4

#### Darkened problems only



#### Section 10.5 Objectives & Vocabulary

Video Notes from textbook online app Examples 1-4

Student Journal pg 301 has summary list:

Student Journal pg. 302 # 1-9 as practice and examples

Essential Question: When a chord intercepts a tangent line or another chord, what relationships exist among the angles and arcs formed?

Lesson Objective(s): Students will find angle and arc measures.  Students will use circumscribed angles.	CC State Standards	CC Mathematical Practice Focus
Previous Learning: This lesson extends the relationships found in a previous lesson about angles and intercepted arcs of a circle.	HSG-C.A.2	MP3
New Vocabulary: circumscribed angle		11 11
Previous Vocabulary: tangent, chord, secant		

#### Online Assignment - bigideasmath.com 10.5



#### Other Worksheets to practice objectives

Resource Textbook worksheets

10.2 Practice A 10.2 Puzzletime

10.4 Practice A 10.5 Practice A

Kuta Software

Arcs and Inscribed Angles

**Secant Angles** 

Tangent and Secant Angles