## Geometry - Circles Part 2

Standards<br>Common Core:<br>HSG-CO.A.1,<br>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-GPEA.1, HSG-GPE_B. 4

## CP Period 3 Geometry Timeline Schedule

$$
\begin{aligned}
& \text { Friday - May } 3 \text {--- Students take notes on the section 10.2 Angles/Arcs } \\
& \text { Monday May } 6 \text {--- Review notes and assign } 10.2 \text { online bigideasmath.com } \\
& \text { Tuesday --- Inscribed angles - Drawing discovery/verification activity } \\
& \text { Wednesday --- Assign online } 10.4 \text { bigideasmath.com -- field trip for a few } \\
& \text { Thursday --- Circumscribed angles - Notes and student journal examples } \\
& \text { Friday } \quad-- \text { Assign online } 10.5 \text { bigideasmath.com }
\end{aligned}
$$

Next week Practice Monday/Tues.
Then Review topics for Final Exam

Test Wednesday May 15th
Exam on Friday May 24

Formulas with $\mathrm{x}, \mathrm{m}, \mathrm{n}$ are the focus on angles for test

## Geometry Formula Sheet - Page 1



## 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 <br> Essential Question: How are circular arcs measured?

Lesson Objective(s): Students will find arc measures.
Students will identify congruent arcs
Students will prove circles are similar.
Previous Learning: Students have explored and defined the different lines and segments that intersect circles.
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

| CC State | CC Mathematical |
| :--- | :--- |
| Standards | Practice Focus |
| HSG-C.A.1 | MP2, MP5 |
| HSG-C.A.2 |  |
|  |  |
|  |  |

## Online Assignment - bigideasmath.com 10.2

Finding Arc Measures

| 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 Angles and Polygons <br> 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. <br> Students will use inscribed polygons. |
| :--- |
| Previous Learning:Students have learned about the measures of angles and angles of <br> polygons. |
| New Vocabulary:inscribed angle, intercepted arc, subtend, inscribed polygon, circumscribed <br> circle |


| CC State |  |
| :--- | :--- |
| Standards | CC Mathematical <br> Practice Focus |
|  | HSG-CO.D. 13 |$\quad$ MP3, MP6 | HSG-C.A.2 |
| :--- |
| HSG-C.A.3 |

## Online Assignment - bigideasmath.com 10.4

## Darkened problems only

| 1 | 2 | 3* | 4 | 5* | 6 | 7* | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11* | 12 | 13* | 14 | 15* | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

## 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

| Geometry Lesson 10.5 - Day 1: Angle Relationships in Circles |
| :--- |
| 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. <br> Students will use circumscribed angles. | CC State <br> Standards | CC Mathematical <br> Practice Focus |
| :--- | :--- | :--- |
| Previous Learning: This lesson extends the relationships found in a previous lesson about <br> angles and intercepted arcs of a circle. | HSG-C.A.2 | MP3 |
| Necabulary: circumscribed angle |  |  |
| Previous Vocabulary: tangent, chord, secant |  |  |

## Online Assignment - bigideasmath.com 10.5



## Other Worksheets to practice objectives

Resource Textbook worksheets<br>10.2 Practice A<br>10.4 Practice A<br>10.2 Puzzletime<br>10.5 Practice A<br>Kuta Software<br>Arcs and Inscribed Angles<br>Secant Angles<br>Tangent and Secant Angles

