## Edwards ♥ 2017-2018 ♥ A Day Schedule ♥ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ♥ Block\_\_\_\_\_\_

**Geometry Honors Unit 8 - CIRCLES**

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| **DATE** | **OBJECTIVES** | **HOMEWORK ASSIGNMENT** | **GRADE** |
| **Friday,**  **March 16** | **Test on Unit 7** | Read 10-1: Complete notes on Circles and Circumference and do 1-15 on the back |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Tuesday,**  **March 20**  *Day 1* | Arc length, Area of Circles & Sectors | Day 01 Practice Worksheet  ***IXL U.1, U.4 = Quiz Grades*** |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Thursday,**  **March 22**  *Day 2* | Angles and Arcs | IXL U.2 & U.3 – Must score at least an 80%  ***IXL U.5 = Quiz Grades*** |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Monday,**  **March 26**  *Day 3* | Arcs and Chords  Tangents | Day 03 Arcs & Chords & Tangents Practice  ***IXL U.6 & U.7 = Quiz Grades*** |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Wednesday,**  **March 28**  *Day 4* | Inscribed Angles | Day 04 Inscribed Angles Practice    ***IXL U.9, U.10, U.11, & U.12 = Quiz Grades*** |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **No school Friday, March 30; Spring Break: April 2-8**  School starts back on Monday, April 9 (A Day) | | | |
| **Monday,**  **April 9**  *Day 5* | Secants, Tangents, & Angle Measures | Day 05 Secants, Tangents, & Angle Measures Practice |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Wednesday,**  **April 11**  *Day 6* | Special Segments in Circles  ***CAV CONNECTION*** | Day 05 & 06 Review Homework Worksheet |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Friday,**  **April 13**  *Day 7* | Equations of a Circle    2 Big Circles BONUS PRACTICE GRADE! | Day 07 Equations of a Circle Practice  ***IXL V.1, V.2, V.3, V.4, & V.5 = Quiz Grades*** |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Tuesday,**  **April 17**  *Day 8* | Review Unit 8 | Unit 8 Test Review Worksheet |  |
| L. Target? | Emoji / What Questions do you still have? | What were your AHA Moments? | |
| **Thursday,**  **April 19**  *Day 9* | **Test on Unit 8** | **TOTAL POINTS:** |  |

**UNIT 8: Circles**

**Learning Targets:**

|  |  |
| --- | --- |
| **Target 1:** | I can define, identify, and use standard notation for all terms related to a circle (radius, diameter, chord,  secant, tangent, major arc, minor arc, intercepted arc, central angle, inscribed angle, congruent arcs,  congruent circles, concentric circles, and common tangents. |
| **Target 2:** | I can calculate a circle’s circumference, area, and arc length, and find the area of a sector. |
| **Target 3:** | I can apply properties of circles to find measures of angles, arcs, or segments formed by radii, chords,  secants, and tangents. |
| **Target 4:** | I can write the equation of a circle when given its parts and I can find the center, radius, diameter, or any point on a circle using the equation of a circle. |
| **Target 5:** | ***WILL BE TAUGHT DURING SOL REVIEW!***  I can construct a tangent line from a point outside a given circle to the circle, a triangle, square, and regular  hexagon inscribed in a circle, and the inscribed and circumscribed circles of a triangle. |

**ENDURING UNDERSTANDINGS: Topics involving ratios are an important foundation which leads to solving problems that involve scale drawings and similar figures.**

1. Many things in our world are defined by the relationship between lines and circles.
2. Circles are used frequently in construction, art, and everyday life.

**ESSENTIAL QUESTIONS: How can geometric figures be used to represent real world situations?**

1. What is the difference between a circle and something being circular?
2. Where in our world are circles present?
3. How do previously learned concepts help us understand segment and angle relationships in circles?
4. What relationships can be found as lines or parts of lines intersect a circle?

**SOL Objectives (2009):**

**G.4** The student will construct and justify the constructions\* of

a) a line segment congruent to a given line segment;

b) the perpendicular bisector of a line segment;



**I love Math!**

c) a perpendicular to a given line from a point not on the line;

d) a perpendicular to a given line at a given point on the line;

e) the bisector of a given angle;

f) an angle congruent to a given angle; and

g) a line parallel to a given line through a point not on the given line.

h) \*Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.†

i) \*Construct the inscribed and circumscribed circles of a triangle.†

j) \*Construct a tangent line from a point outside a given circle to the circle.†

**G.11** The student will use angles, arcs, chords, tangents, and secants to

a) investigate, verify and apply properties of circles;

b) solve real-world problems involving properties of circles; and

c) find arc lengths and areas of sectors in circles

**G.12** The student, given the coordinates of the center of a circle and a point on the circle, will write the equation of the circle.