Topic 7 Outline Lesson Plan - GEOMETRY

**PROPERTIES OF CIRCLES**

**2/5 Monday – Section 15.1 – Central and Inscribed Angles (MAFS.912.G-C.1.2)**

**Essential Question:**  How can you determine the measures of central angles and inscribed

angles of a circle?

**Vocabulary:** chord, central angle, inscribed angle, arc, minor arc, major arc, semicircle, adjacent arcs, intercepted arcs, inscribed angle of a diameter theorem

**Classwork:** Evaluate pg. 786-788 # 1-19 odd online

**Home Learning:** Complete section 15.1

**2/6 Tuesday – Topic 6 Assessment**

**2/7 Wednesday – Long Term Memory Skills EOC Review (week 3 & 4)**

**2/8 – Thursday – Section 15.2 – Angles is Inscribed Quadrilaterals (MAFS.912.G-C.1.3/MAFS.912.G-CO.4.12)**

**Essential Question:** What can you conclude about the angles of a quadrilateral inscribed in a circle?

**Vocabulary:** Inscribed Quadrilateral Theorem

**Classwork:** Evaluate pg. 800-802 # 5-14 all online

**Home Learning:** Complete section 15.2

**2/9 & 2/12 – Friday/Monday – Section 15.3 – Tangents and Circumscribe Angles (MAFS.912.G-C.1.2/MAFS.912.G-C.1.4)**

**Essential Question:** What are the key theorems about tangents to a circle?

**Vocabulary:** tangent, point of tangency, tangent radius theorem, converse of tangent radius theorem, circumscribed angle,

**Classwork:** Evaluate pg. 810-811 # 8-15 all online

**2/13 – Tuesday – Section 15.4 – Segment Relationships in Circles (MAFS.912.G-C.1.2)**

**Essential Question:** What are the relationships between the segments in circles?

**Vocabulary:** chord-chord product theorem, secant, secant segment, external secant segment, secant-secant product theorem, tangent segment, secant tangent product theorem

**Classwork:** Evaluate pg. 824-828 # 3-21 odds online

**Home Learning:** Complete section 15.4

**2/14 – Wednesday – Long Term Memory Skills EOC Review**

**2/15 – Thursday – Section 15.5 – Angle Relationships in a Circle (MAFS.912.G-C.1.2)**

**Essential Question:** What are the relationships between the segments in circles?

**Vocabulary:** intersecting chord Angle Measurement Theorem, Tangent Secant Interior Angle Theorem, Tangent Secant Exterior Angle Theorem

**Classwork:** Evaluate pg. 836-838 # 1-16 all online

**Home Learning:** Complete section 15.5

**2/16 – 2/20 – Friday/Tuesday – Section 16.1. – Justifying Circumference and Area of a Circle (MAFS.912.G-GMD.1.1)**

**Essential Question:** How can you justify and use the formulas for the circumference and area

of a circle?

**Vocabulary:**

**Classwork:** Evaluate pg. 836-838 # 1-16 all online

**Home Learning:** Complete section 16.1

**2/21 Wednesday – Long Term Memory Skills EOC Review**

**2/22 – 2/23 – Thur/Fri – Section 16.2. – Arc Length and Radian Measure (MAFS.912.G-C.1.1,** **2.5 )**

**Essential Question:** How do you find the length of an arc?

**Vocabulary:** Arc, arc length, arc length formula, radian measure

**Classwork:** Evaluate pg. 867-870 # 1-22 all online

**Home Learning:** Complete section 16.2

**2/26 – 2/27 – Mon/Tue – Section 16.3. – Sector Area (MAFS.912.G-C.2.5)**

**Essential Question:** How do you find the area of a sector of a circle?

**Vocabulary:** sector and area of a sector

**Classwork:** Evaluate pg. 876-879 # 1-23 all online

**Home Learning:** Complete section 16.3

**2/28 Wednesday – Long Term Memory Skills EOC Review**

**3/1 – 3/2 – Thur/Fri – Section 17.1 – Equation of a Circle (MAFS.912.G-GPE.1.1)**

**Essential Question:** How can you write the equation of a circle if you know its radius and the

coordinates of its center?

**Vocabulary:** circle, equation of a circle

**Classwork:** Evaluate pg. 896-898 # 1-23 all online

**Home Learning:** Complete section 17.1