Name: _____
Date: _____

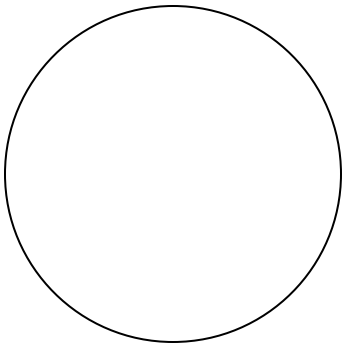
CHAPTER 8 NOTES – Circle Geometry

	Date:
Geometry Review – a review to help you with chapter 8	_____
8.1 – Properties of Tangents to a Circle	_____
8.2 – Properties of Chords in a Circle	_____
8.3 – Properties of Angles in a Circle	_____
8.4 – Using Circle Properties to Solve Problems	_____
Review:	_____
Test:	_____

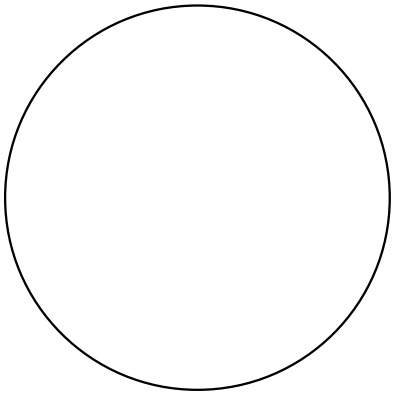
What You'll Learn:

8.1 – Circle properties that relate a tangent to a circle and the radius of the circle
8.2 – Circle properties that relate a chord in a circle, its perpendicular bisector, and the centre of the circle
8.3 – Circle properties that relate the measures of angles in circles
8.4 – Problem solving using circle properties

On the circle below, draw and label a circumference, radius, diameter, and tangent line. What is a tangent line?



On the circle below, draw and label a chord and describe what a chord is in words. Also, draw and label a minor arc and major arc.



Geometry Review

Focus: Review basic geometry concepts and vocabulary from previous grades.

Main Ideas:

What is the difference between acute, right, obtuse, straight, and reflex angles? Draw each with capital letters and explain.

What are ‘vertically opposite’ angles and what is their relationship?

What does ‘congruent’ mean?

What are ‘complementary’ angles?

What are ‘supplementary’ angles?

What do ‘angles on a line’ add to?

What do ‘angles at a point’ add to?

What do the 3 angles in any triangle add to?

What is an equilateral triangle?

What is a right triangle, and if you know two sides, how do you calculate the 3rd side?

What is an isosceles triangle and what are its characteristics?

What is a name for any 4-sided object?

What is an important characteristic for any quadrilateral?

Draw a circle and label the circumference, radius, and diameter

Draw a circle and a tangent line. Label the tangent line. Draw a radius to the tangent line and label the 'point of tangency'.

Reflection: What part of this review do you need to spend some extra time on and why?