Lesson Title: Circles,

Subject/Grade: Grade 7 Math Circumference review and begin Area of a Circles Teacher: Morganne Connick

Stage 1: Identify Desired Results

Outcome(s)/Indicator(s):

SS7.1: Demonstrate an understanding of circles including circumference and central angles:

- a) Identify the characteristics of a circle,
- b) Define and illustrate the relationship between the diameter and radius of a circle,
- c) Answer the question "how many radii does a circle have and why?"
- d) Answer the question "how many diameters does a circle have and why?"
- e) Explain (with illustrations) why a specific point and radius length (or diameter length) describes exactly one circle.
- f) Illustrate and explain the relationship between a radius and a diameter of a circle,
- g) Generalize, from investigations the relationship between the circumference and the diameter of a circle,
- h) Define pi and explain how it is related to circles
- i) Draw a circle with a specific radius or diameter with and without a compass,
- j) Solve problems involving circles.

Key Understandings: ('I Can' statements)	Essential or Key Questions:
 I can list characteristics of a circle, I can tell the difference between the radius and the diameter of a circle, I can draw a circle, then explain the radius and diameter, I can explain π and how to use it when calcululating circles, 	 Why is it important to understand the difference between radius and diameter when approaching circumference? How can we identify circles in our day to day lives? What is the importance of pi?

- I can draw a circle with and without a compass,
- I can solve word problems that involve circles,
- Why should we know how to draw and calculate a circle without a compass?

Prerequisite Learning:

- Understanding of radius, diameter, pi and circumference, along with how to appy these in an equation
- Understand how to find C using radius and diameter
- Effectivly complete a word probelm

Instructional Strategy(ies):

- Lecture portion including slides,
- Group discussion and collaboration to review 8.1 and 8.2

Stage 2: Determine Evidence for Assessing Learning

Formative Assessment: A second check in slip will be handed out to students to do a second check in on how they feel about the subject, as with the previous class, and about the new information.

Stage 3: Build Learning Plan

Set (Engagement):	Instructional Strategies:
Students will be given time to ask questions they have and	Group instruction and
request which areas we focus on in the review.	collaboration
Length of Time: 5 mins	
	Materials/Resources:
	• Calculators,
	• Slides,
	• Worksheet for students to
Development: Length of	follow along with,
Time: 20	• Math Links textbooks,
Based on feedback from students I am going to focus on	• Math antics video:
reviewing some of the main points from 8.1 and 8.2. This	https://www.youtube.com/
will include a few slides on construct of circles and more	watch?v=O-cawByg2aA
focus on circumference of a circle. Most likely reviewing	•
some of the questions in the textbook to build	
understanding before me move onto 8.3	
Studetns will watch a video about circumference and area	Possible Adaptations/
of a circle. Students will be moving on to chapter 8.3 area	Differentiation:
of a circle. Slides will introduce students to the concept of	• Based on formative
area, and additional information that will support students	assessments, I will be
knowledge including:	reviewing some of the
• $A=\pi x r2$ (squared)	previous units.
• The formal to find A considering r squared,	
• Finding the formula when d is given.	Management Strategies:
Time will also be allotted to do practice questions as a	• Verbal cues
group. These will be presented on a sheet to allow	
students to follow along, breaking down the questions for	
them to fill in as we work together. This is time	
permitting.	Safety Considerations:
	All COVID-19 protocols
	will be followed during
Learning Closure: Length of Time: approx	this activity with students
5 mins	remaining in their seats as
we will work to the end of class on the area of a circle and	much as possible.
continue on into the next class if need be. I do not want to	
rusn this section.	

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