Literature Lesson Planning: Learning About Circles

Story: Sir Cumference and the First Round Table	Author: Cindy Neuschwander

Materials Needed:
- *Sir Cumference and the First Round Table*
- Measuring Circles Worksheet (1 per student or 1 per pair)
- Rulers (1 per student or 1 per pair)
- Scissors (1 per student or 1 per pair)
- Writing utensils (1 per student or 1 per pair
- Whiteboard and markers

Learning Intention

Grade: 7	Content: • Circumference and area of circles
Curricular Competency: • Visualize to explore mathematical concepts • Use mathematical vocabulary and language to contribute to mathematical discussions	Learning Intention: • Students will have an understanding of the basic terms circumference, diameter and radius. • Students well have a beginning understanding of the processes involved in solving problems involving circles.

Number Sense Opener

Strategy Name: Which One Doesn't Belong?	Strategy Description: Students are shown a series of images and they must determine which one of the group doesn't belong. These images will focus on circumference, diameter, radius and geometry in general.

Specific task to use:

Click on link or follow below

https://docs.google.com/presentation/d/1x2wjuKi-NR2q6XMJUel1iC42n-Ld6EvdjVY2V5nNKWA/edit?usp=sharing

Story Time

Notes for Reading Story: Stop after page 4	Possible Questions for students: (P. 4) What terms did we just learn from the story? (Circumference, Diameter, Radius)
Stop on page 8 to draw a diagram on the board.	(P. 8) Is Lady Di correct when she says it creates 4 equal sides?
Stop on page 9	(P. 9) We just came across another term, thumbs up if you know what it is (Geometry).
Stop on page 11 to draw a diagram on the board.	(P. 11) What is another name for this shape? (Parallelogram).
Stop on page 17	(P. 17) How many sides does an octagon have? Thumbs up when you know (8).
Stop on page 24	(P. 24) What did Lady Di check? (Diameter)

Story Activity

"What Size are these Circles?" Activity!

Using this Measuring Circles Activity (https://s3.amazonaws.com/migleadmagnets/Measuring+Circles+Activity.pdf) students will each be given one a print out of the sheet of circles and organizer chart or if working in partners, one per pair, for the activity. They can either cut them out (taking up more time in the lesson) or measure directly onto the paper. We will be asking students to find the diameter and radius of each circle by measuring with their rulers, so that we as a class (or in groups) will be able to calculate the diameter together using our favourite equations to find circumference [$C=2\pi r$] and area [$A=\pi r^2$] later on.

    Each student will mark onto the circle/paper the diameter and radius that they measure which they will then also fill out into the graphic organizer provided. This will help ensure that students keep their work neat and tidy, something needed for when we begin our calculations with pi later on in the activity.

    This lesson in turn becomes a great way to introduce classes to the concepts of geometry and how to find calculated answers such as diameter and area from only a simple shape.