

## SAMPLE SCRIPT FOR PRESENTING VOCABULARY TERMS FOR A CIRCLE

### CIRCLE VOCABULARY PAPER PLATE

*Materials:*

- 1) 1 paper plate for each student (use then paper plates do not use Styrofoam)
- 2) Enough markers for students to share and have access to four different colors

*Write the following vocabulary terms on the board or overhead:*

- 1) **Center**
- 2) **Circumference**
- 3) **Chord**
- 4) **Diameter**
- 5) **Radius**

*Tell your students that they will learn the meaning of these terms by actually drawing them on the circular paper plates.*

*Begin by asking the students to share with their neighbor what they think “center” means. Ask a student to share their idea. You may ask several students to share their definitions. Debrief the student provided definitions until the proper mathematical definition is achieved.*

*To find the center of the paper plate, have students fold the plate in half, making a firm crease, then have them fold the plate in half again (making a second firm crease). Where the creases intersect is the center.*

*Have them draw a dot in the center of the plate with a colored marker and label it C. Then have them write the definition.*

“The **center** is a fixed point equal distance from all points on a circle.”

*Have them color, using a different color marker the circumference of the plate. Then have them write the word circumference and the definition.*

“The **circumference** of a circle is the distance around the circle.” (Like the perimeter of a polygon.)

*Repeat this process with chord, using a different color.*

“A **chord** is a segment whose endpoints are on a circle.”

*Repeat this process with diameter, using a different color.*

Note: students could color one of the creases as the diameter.

“A **diameter** is the chord of longest distance.” Note: a diameter goes through the center of the circle.

*Repeat this process with radius, using a different color. Note they could color half of one of the creases as the radius.*

“A **radius** is the distance from the center of a circle to any point on the circle. It’s  $\frac{1}{2}$  the length of the chord of longest distance.”

Note: Radius ( $r$ ) and Diameter ( $d$ ),  $r = \frac{1}{2}d$  or  $d = 2r$

### Teacher Talk (notes);

- Each time you write a definition on the board ask the students to repeat it using choral response. This helps to keep them engaged as well as reinforce the definition of each term.
- Pay special attention to the definition of diameter as “the chord of longest distance”. This reinforces the knowledge that diameter is also a chord.
- Make it clear that each definition and its model should be in a different color, so they contrast and stand out visually.

### Sample of a completed Circle Vocabulary Paper Plate:

You can punch a hole in the plate so students can put the Circle Vocabulary Paper Plate in their binders.

