Go Round and Round!

Learning objective: Derive the formula to find the circumference of a circle.

Duration: 15 min

Grades 6 and 7

Material:
- Cans
- Jars
- Pencil
- Paper

Activity Description:

- ❖ Divide the students into groups of 4

- ❖ Provide each group with a jar, ruler, paper, and a pencil

- ❖ Ask each group to use their cans or jars,

- ❖ Use the can to draw a circle.

- ❖ Measure the diameter of your circle.

- ❖ Use a string to measure the circumference of the can. Record your results.

❖ Divide the circumference by the diameter.

❖ What are the results obtained? Answer must be around 3.

❖ Introduce the term $pi : \pi = 3.16 \ or \ \dfrac{22}{7}$

❖ Conclude the circumference of the circle: $\dfrac{c}{d} = \pi \Rightarrow$ or $\begin{array}{l} c = \pi \, x \, d \\ c = \pi \, x \, 2r \end{array}$