

## Geometry

**Goal: The learner will understand and use properties and relationships of geometric figures in the coordinate plane.**

**Objective:**

**3.02 Identify the radius, diameter, chord, center, and circumference of a circle; determine the relationships among them.**

To achieve this objective, students should:

- Know that the perimeter of a circle is called its circumference.
- Discover the relationship between circumference and diameter of a circle. Know that the circumference is greater than the diameter ( $C = \pi d$ ), and the diameter is greater than the radius ( $d = 2r$ ).
- Model and understand the formula for circumference of a circle. Discover that it takes slightly more than three ( $\pi$ ) diameters to equal the circumference of a circle.
- Know that the diameter is the longest chord in a circle