

Measurement

Goal: The learner will understand and use measurement involving two- and three-dimensional figures.

Objective:

2.02 Solve problems involving volume and surface area of cylinders, prisms, and composite shapes.

To achieve this objective, students should:

- Understand that volume is the measure of the interior of a space expressed in cubic units.
- Understand that surface area is the total area of the surfaces of an object expressed in squared units.
- Use nets to visualize and calculate surface area of prisms and cylinders.
- Develop formulas by modeling in words or symbols for calculating the volume of prisms and cylinders.
- Differentiate between surface area and volume in contextual situations.
- Decompose composite figures into cylinders and/or prisms to find the volume or surface area of the figure.