

Enduring Understandings

The degree of precision in measurements depends on the measurement tool.

Generalizations can be made to represent the relationship between area and volume.

Essential Questions

What determines the degree of precision of a measurement?

How do the dimensions of a geometric figure affect area, surface area, and volume?

Indicators

- 3.7.2.1 select tools and units to measure accurately and determine the degree of precision.
- 3.7.2.2 demonstrate an understanding of precision, error, and tolerance in measurement.
- 3.7.3.1 use models to find and derive a formula for surface area and volume of prisms and cylinders.
- 3.7.3.2 use formulas to find the surface area and volume of basic three-dimensional figures, including prisms and cylinders.
- 3.7.3.3 determine relationships between length and area, and describe how a change in one affects the others.