

SCALE DRAWING OF EARTH

Lesson Summary:

Students learn about Earth's layers by making scale drawings. Students develop an understanding of the relative thickness and location of Earth's layers.

Objectives:

The student will:

- identify Earth's layers, including the inner core, outer core, mantle, and crust;
- apply knowledge of scale to calculate the relative size and thickness of Earth's layers; and
- use a drawing compass and ruler to create a scale drawing of Earth's layers.

GLEs Addressed:

Science

- [5-8] SA1.1 The student demonstrates an understanding of the processes of science by asking questions, predicting, observing, describing, measuring, classifying, making generalizations, inferring, and communicating.
- [6] SD2.2 The student demonstrates an understanding of the forces that shape Earth by identifying and describing its layers (i.e., crust, mantle, core).

Math

- [6] MEA-6 The student demonstrates ability to use measurement techniques by converting and using equivalent measurements within the same system (M2.2.2).
- [7] MEA-3 The student demonstrates understanding of measurement techniques by applying a given scale factor to find missing dimensions of similar figures (M2.3.4).
- [8] MEA-3 The student demonstrates understanding of measurement techniques by [modeling the conversion within the same system L] (M2.3.2).
- [7] PS-5 The student demonstrates the ability to apply mathematical skills and processes across the content strands by using real-world contexts such as science, humanities, peers, and community (M10.3.1 & M10.3.2).
- [8] PS-5 The student demonstrates the ability to apply mathematical skills and processes across the content strands by using real-world contexts such as science, humanities, peers, community, and careers (M10.3.1 & M10.4.2).

Search Terms:

- Earth's layers
- scale drawing
- inner core
- outer core
- mantle
- crust
- diameter