SUN/EARTH CONVERSIONS

Lesson Summary:

During this activity, students convert measurements obtained in the activity "A Sun/Earth Comparison" from miles to kilometers and from inches to centimeters.

Objectives:

The student will:
- convert metric units to English units;
- calculate scale factor; and
- determine the appropriate distance (in inches), between a clay model Earth (.39 inches in diameter) and a paper sun (39 inches in diameter).

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.

[8] SD4.1   The student demonstrates an understanding of the theories regarding the origin and evolution of the universe by creating models of the solar system illustrating size, location/position, composition, moons/rings, and conditions.

Math

[9] MEA-1   The student demonstrates understanding of measurable attributes by estimating or converting measurements between the English and metric systems in real-world applications, given a conversion factor (e.g., miles/kilometers) (M2.4.2).

Search Terms:

- sun
- Earth
- conversion
- miles
- kilometers
- inches
- centimeters
- metric system
- mathematics