

Name: _____

A 3-D Model of the Earth and the Moon

Your teacher will give directions for completing each section of this lab sheet.

Part 1

Comparing the Volumes of the Earth and Moon

Earth	Moon

What do the numbers in the table mean?

Part 2

Prediction: What is the ratio of the Earth's diameter to that of the Moon? _____

How did you come up with your prediction? _____

Comparing the Diameters of the Earth and Moon

Earth	Moon

What do the numbers in the table mean?

Part 3

Set the clay Earth and Moon on the floor or desk showing the distance they should be from each other. Measure the distance in metric units, and record it on the line below as your prediction.

Prediction: How far apart should the Earth and Moon be in this scale model? _____

The distance between the Moon and Earth is almost exactly ____ times the Earth's diameter.

What does that mean?

Using your scale model, how far away should the Moon be placed from the Earth? Please show your work and explain each step.

What did you learn from this activity?
