Name _

Class_

Quick Lab

MATERIALS

- modeling clay
- metric ruler
- sheet of paper
- penlight



PROCEDURE

- **1.** Make two balls from **modeling clay**, one about 4 cm in diameter and one about 1 cm in diameter.
- 2. Using a metric ruler, position the balls about 15 cm apart on a sheet of paper.
- **3.** Turn off any nearby lights. Place a **penlight** approximately 15 cm in front of and almost level with the larger ball. Shine the light on the larger ball. Sketch your model, and note the effect of the beam of light.

4. Repeat step 3, but reverse the positions of the two balls. You may need to raise the smaller ball slightly to center its shadow on the larger ball. Sketch your model, and again note the effect of the light beam.

ANALYSIS

1. Which planetary bodies do the larger clay ball, the smaller clay ball, and the penlight represent?

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ume	Class	Date
Eclipses continued		
2. As viewed from Earth, wh viewed from the moon, wh	at event did your model nat would your model re	in step 3 represent? As epresent?
S. As viewed from Earth, wh viewed from the moon, wh	at event did your model nat would your model re	in step 4 represent? As epresent?
4. In what ways could you m	odify this activity to mo	ore closely model how
eclipses occur?		