

Earth, Moon, and Stars

Teacher's Guide

Grades 5-8

LAWRENCE HALL OF SCIENCE
UNIVERSITY OF CALIFORNIA AT BERKELEY

LHS GEMS

Activity 1

What You Need

For each pair of students:

- 2 copies of the "Ancient Models of the World" activity sheet (master included, page 7)
- 1 large sheet of paper or cardboard
- crayons or magic markers

Activity 2

What You Need

For the class:

- 8 copies of the "What Are Your Ideas About Earth?" questionnaire (master included, page 14)
- 8 Earth globes or other large balls
- 8 bowls or rolls of tape (to support globes)

For each student:

- 1 copy of the "What Are Your Ideas About the Earth?" questionnaire

Activity 3

What You Need

For the class:

- 2 large sheets of butcher paper
- 1 felt-tipped marker or crayon
- 1 roll of masking tape

For each student:

- 1 pencil
- 10 sheets of paper
- 1 manila folder
- 1 calculator (optional)

Activity 4

What You Need

For the class:

- 1 lamp with no shade
- 1 25-foot extension cord
- 1 40-watt clear lightbulb
- 1 75-watt clear lightbulb

For each student:

- 1 two-inch polystyrene ball.

Note: Styrofoam balls will work if painted with white latex or other water-based paint. Just about any other balls will also work, as long as they are opaque. Polystyrene balls may be purchased inexpensively from a number of sources and are of course supplied in the *Earth, Moon, and Stars* kit from Carolina Biological (see inside front cover of this guide for contact information).

Activity 5

What You Need

For the class:

- 1 large sheet of black construction paper (16" x 20" or larger)
- 1 box of large gold stars or round yellow labels
- 1 box of small gold stars or round yellow labels
- 1 roll of masking tape
- 1 meter stick

For each student:

- 1 copy of the "Instruction Sheet" for making a Star Clock (master included, page 39).
- 1 paper fastener
- 1 pair of scissors (If you do not have enough scissors, students can share.)

Activity 6

What You Need

For the class:

- 4 large sheets of black paper or poster board
- 1 box of large gold stars or round yellow stickers
- 1 box of small gold stars or round yellow stickers
- masking tape

For each student:

- 1 copy of the current star map (see "Getting Ready," page 42)