

List of Materials

General Supplies

- Tape, glue, rubber bands
- scissors and (or) single-edge razor blades
- grease pencil or water soluble markers
- shoe box
- 3" × 5" note cards
- aluminum foil
- sheet of thin cardboard and of corrugated cardboard
- glass or clear plastic jar with lid
- ruler or meter stick, protractor
- straight pins
- six-sided die

Activity 1

- 2 cm × 2 cm square of holographic or regular diffraction grating
- $\frac{1}{2}$ sheet of regular graph paper, 10 squares per cm
- optional "The Spectra of the Stars" slide set
- optional Preassembled units for spectroscope

Activity 2

- 1 sheet of isometric graph paper

Activity 3

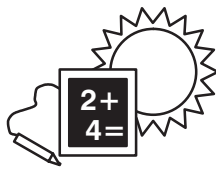
- Thermometer with a range to 50° C
- $\frac{3}{4}$ " cork stopper with hole for thermometer

Activity 4

- sheet of clear cellophane, about 8 cm square
- 6 cm × 12 cm × 2 cm block of paraffin

Activity 5

- 3 cm × 3 cm squares of colored acetate (or cellophane): red, green, blue
- 3 cm × 3 cm square of Polaroid filter
- 3 cm × 3 cm square of Solarskreen filter
- optional "The Sky at Many Wavelengths" slide set and book



Activity 6

- clear hemisphere—plastic or glass—about 15 cm or larger in diameter
- magnetic directional compass

Activity 7

- small bar magnet, about 1 cm × 1 cm × 4 cm
 - small plane mirror, about 3 cm square
 - 30 cm or thin nylon thread
 - 20 cm of 20 AWG copper wire
- optional pen-sized laser (under \$50 from Metrologic Corp.)

Activity 8

- Solar H α photo set
- or
- *Sky and Telescope* reprint LE 0 14 “Laboratory exercises in Astronomy—the Rotation of the Sun”