

## MATERIALS AND EQUIPMENT

The unit requires a variety of materials to support various ways of learning (including doing, discussing, listening, watching, reading, and writing). Prepare in advance by collecting the materials and equipment needed for all the demonstrations and hands-on investigations.

### Part A: Spheres of the Earth

#### Lesson 1

- clipboards or other hard surfaces for students to write on (1 per student)
- pencils with erasers (1 per student)
- highlighters (1 per student)
- internet access and the means to project images/video for whole-class viewing

#### Lesson 2

- clear drinking glass or beaker
- water
- ice
- plastic wrap
- rubber band
- classroom globe
- index cards for student vocabulary deck (6 per student)
- internet access and the means to project images/video for whole-class viewing
- optional: table salt, cups, empty 1-liter bottle, water

#### Lesson 3

- water
- food dye
- clear 1-liter plastic bottle
- graduated cylinder to measure liquid volume
- eyedropper
- six small plastic cups (3-ounce bathroom size)
- salt (1 tablespoon for each bottle)
- permanent marker
- rulers
- colored pencils or markers

#### Lesson 4

- peach or photo of a cut peach
- knife
- construction paper (2 sheets per student)
- internet access and the means to project images/video for whole-class viewing
- index cards for student vocabulary deck (3 per student)

#### Lesson 5

- basketball
- pillowcase
- cellophane tape
- hole punch
- construction paper of one color (1 sheet per team)
- glue or paste
- index cards for student vocabulary deck (3 per student)

#### Lesson 6

- basketball
- thin plastic wrap
- colored pencils
- rulers
- internet access and the means to project images/video for whole-class viewing
- index cards for student vocabulary deck (4 per student)

### Part B: Modeling Earth's Systems

#### Lesson 7

- internet access and the means to project images/video for whole-class viewing

#### Lesson 8

- beaker
- small desk fan
- water

**Lesson 8, continued**

- sediment (sand or flour)
- bowl
- cube of salt
- index cards for student vocabulary deck (2 per student)

**Lesson 9**

- bricks (2)
- shoeboxes (2)
- thermometer
- plastic or glass container (1 quart)
- small stones
- sand or soil
- water
- organic material (leaves, grass clippings, worm castings, etc.)
- index cards for student vocabulary deck (4 per student)

**Lesson 10**

- index cards for student vocabulary deck (1 per student)

**Lesson 11**

- internet access and the means to project images/video for whole-class viewing

**Lesson 12**

- internet access for research

**Unit Review**

- internet access and the means to project images/video for whole-class viewing