

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: Living Things and Their Environments

Lesson 1

- poster-size paper for student diagrams (1 per group)
- markers or crayons for student diagrams (1 set per group)
- index cards for student vocabulary deck (3 per student)
- internet access and the means to project images/video for whole-class viewing

Lesson 2

- world map or globe
- internet access and the means to project images/video for whole-class viewing

Lesson 3

- medium-sized cups of cold water (2 per pair of students)
- ice cubes
- vegetable shortening
- plastic wrap or non-latex disposable gloves (1 8-inch square or glove per student)
- small disposable cup (1 per pair)
- plastic spoon (1 per student)
- timer (1 per pair)

Lesson 4

- paper towels
- waxed paper
- small cups of water
- eyedropper
- index card for student vocabulary deck (1 per student)
- internet access and the means to project images/video for whole-class viewing

Lesson 5

- index card for student vocabulary deck (1 per student)
- internet access and the means to project images/video for whole-class viewing (animal groups)

Lesson 6

- Online Image Library
- name tags
- internet access and the means to project images/video for whole-class viewing

Part B: Ecosystems and Environmental Change

Lesson 7

- internet access and the means to project video for whole-class viewing
- library or internet resources for gathering information

Lesson 8

- index cards for student vocabulary deck (2 per student)
- internet access and the means to project video for whole-class viewing

Lesson 9

- index cards for student vocabulary deck (2 per student)

Lesson 10

- plastic plant
- clear glass
- water
- internet access and the means to project video for whole-class viewing

Lesson 11

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

Lesson 12

- timer

Part C: Evidence of How Organisms and Environments Have Changed over Time**Lesson 13**

- sand
- soil
- pebbles
- seashells
- large craft beads
- craft feathers
- aluminum 9- by 13-inch pans (10)
- paper towels
- paintbrushes
- index card for student vocabulary deck (1 per student)

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

Lesson 14

- scissors
- glue sticks
- seashell
- modeling clay

Lesson 15

- index card for student vocabulary deck (1 per student)
- internet access and the means to project video for whole-class viewing

Lesson 16

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

Unit Review

- index cards (1 per student)
- timer (optional)