3

Science Standard 3.3.a.

Supports ELA Standard: Writing 3.2.3.

Teacher's Masters

California Education and the Environment Initiative

Structures for Survival in a Healthy Ecosystem

California Education and the Environment Initiative

Approved by the California State Board of Education, 2010

The Education and the Environment Curriculum is a cooperative endeavor of the following entities:

California Environmental Protection Agency
California Natural Resources Agency
Office of the Secretary of Education
California State Board of Education
California Department of Education
California Integrated Waste Management Board

Key Leadership for the Education and Environment Initiative:

Linda Adams, Secretary, California Environmental Protection Agency
Patty Zwarts, Deputy Secretary for Policy and Legislation, California Environmental Protection Agency
Andrea Lewis, Assistant Secretary for Education and Quality Programs, California Environmental Protection Agency
Mark Leary, Executive Director, California Integrated Waste Management Board
Mindy Fox, Director, Office of Education and the Environment, California Integrated Waste Management Board

Key Partners:

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Valuable assistance with maps, photos, videos and design was provided by the **National Geographic Society** under a contract with the State of California.

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Lesson 1 Structures That Help

None required for this lesson.

Lesson 2 When Structures Are Not Enough!

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Lesson 3 Do Animal Structures Guarantee Survival?

None required for this lesson.

Lesson 4 Plants, Animals, and People

Apple Cards 3

Lesson 5 Building a Hummingbird Habitat

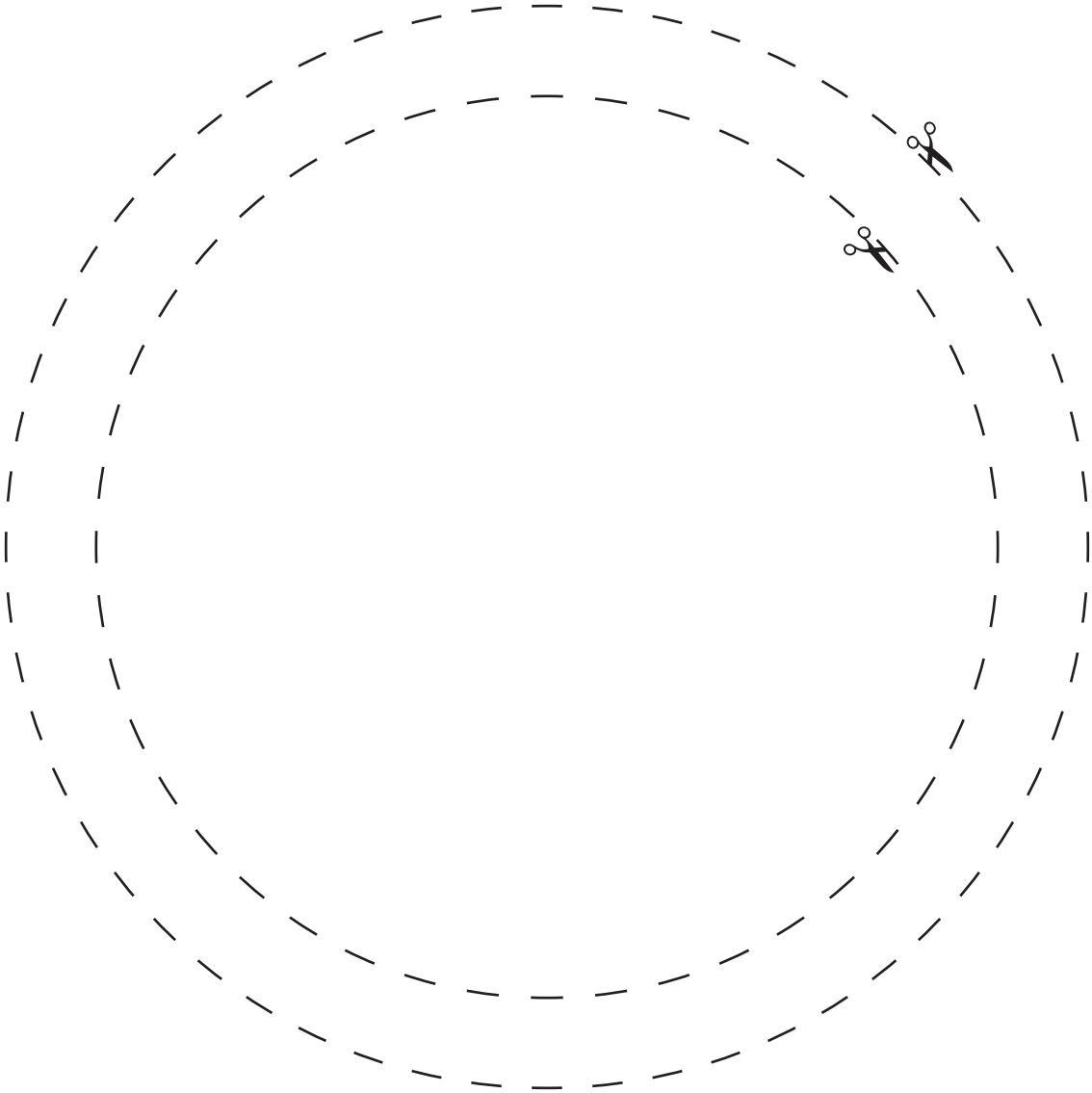
None required for this lesson.

Assessments

Structures for Survival in a Healthy Habitat—
Traditional Unit Assessment Master 4

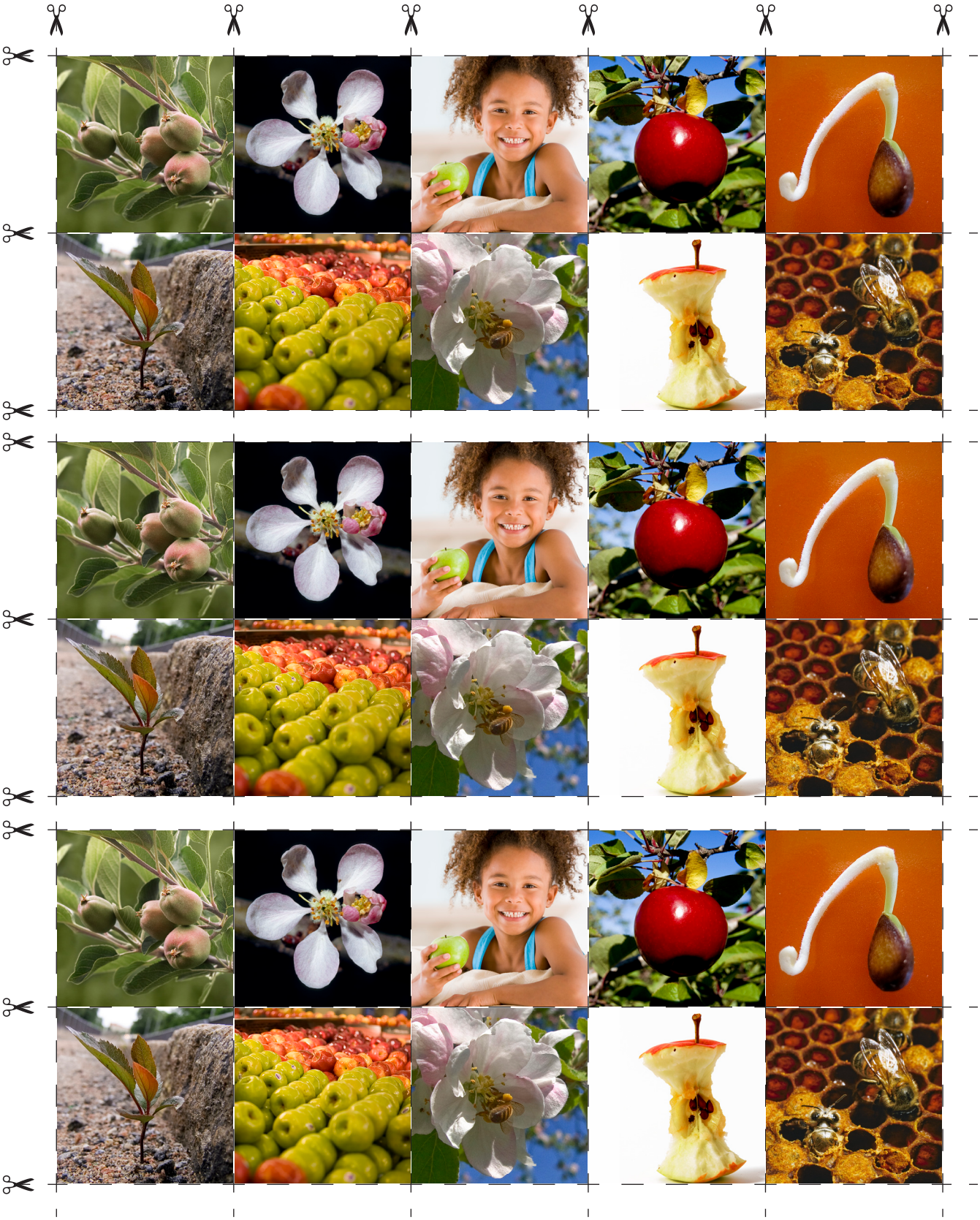
Structures for Survival in a Healthy Environment—
Alternative Unit Assessment Master 7

Instructions: Cut out Local Region Ring.



Apple Cards

Lesson 4



Name: _____

Instructions: Use words from the Word Bank to complete the following sentences. (2 points each)

Word Bank

roots	water	evergreen forest
beak	seeds	cheeks
stem	insects	desert

1. The ocotillo plant lives in the _____. Its waxy _____ holds in _____ to help it survive.

2. The pileated woodpecker lives in the _____. It uses its strong _____ to look for _____ that live in pine trees.

3. The lodgepole pine uses its _____ to get water from the ground.

4. The kangaroo rat eats _____. It carries them in its _____.

Name: _____

Instructions: Write a brief answer on the lines provided. (2 points each)

5. There has been no rain in the forest for a long time. Will the roots still help the plants grow? Why?

_____

_____

6. There has been very little rain in the desert. The ocotillo plant does not make seeds. Will the kangaroo rat's cheeks still help it survive?

_____

_____

Instructions: Select the best answer and circle the correct letter. (2 points each)

7. How do bees help plants reproduce?
   a. They protect plants from animals.
   b. They bring plants water.
   c. They pollinate plants.
   d. They take care of plants' seeds.

8. What are two foods that bees get from apple flowers?
   a. pollen and apples
   b. apples and nectar
   c. nectar and pollen
   d. honey and apples

Name: _____

Instructions: Read the question and write an answer in the space provided. (5 points each)

9. I like to eat apples. Why should I care about bees?

_____

_____

_____

_____

_____

_____

10. Describe three ways we can help hummingbirds that live near our school.

_____

_____

_____

_____

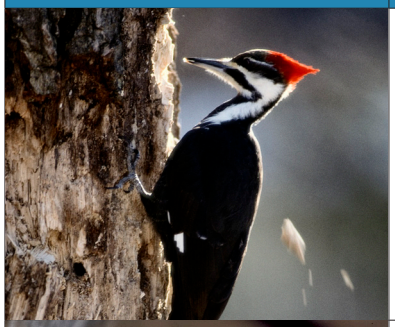
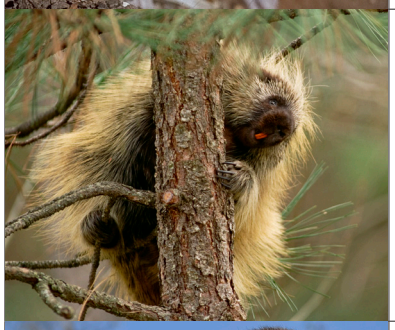
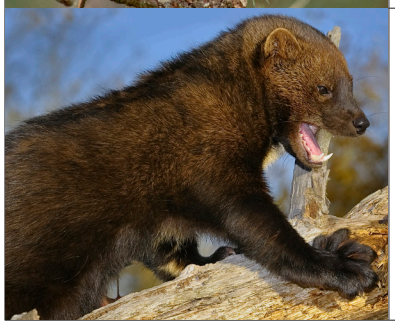
_____

_____

Name: _____

Part 1

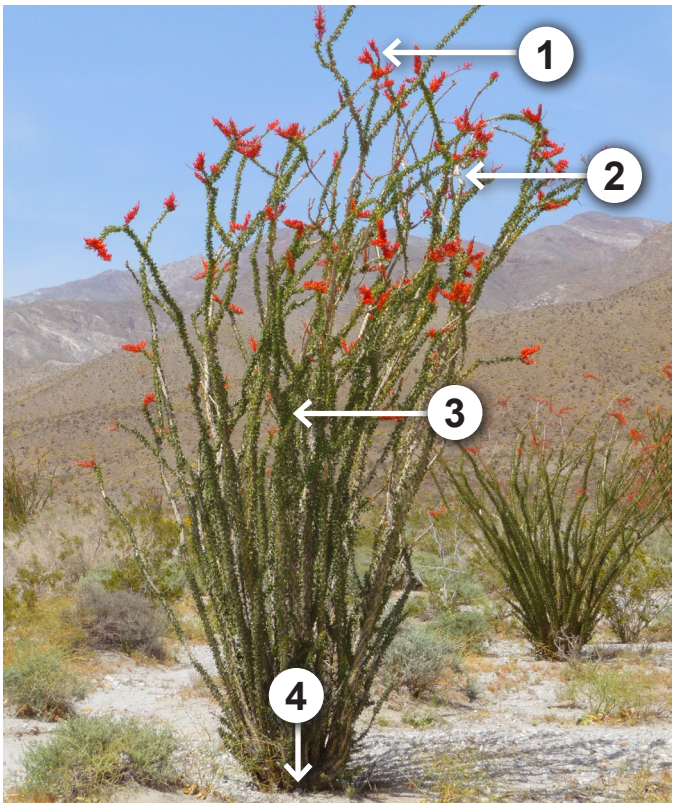
Instructions: Look at each photograph. Write answers to the questions on the chart. (2 points each animal)

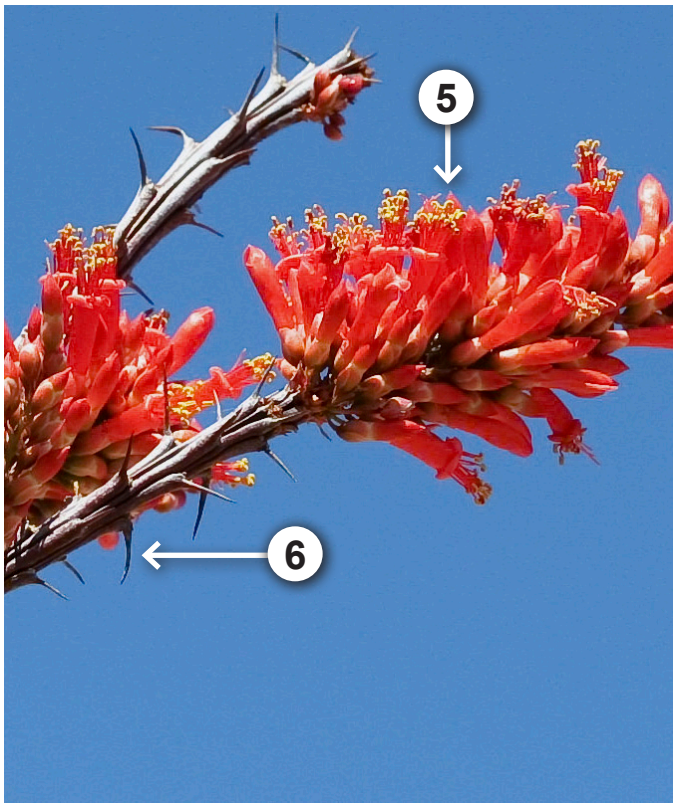
Animal	What Survival Structure Is Being Used?	What Is the Animal Getting from the Habitat to Survive?
		
		
		

Name: _____

Part 2

Instructions: Look at the pictures. Name the parts of the ocotillo that match the numbers. Describe how each part helps the plant grow, survive, and reproduce. (2 points each)





1. This is the ocotillo _____.
   It attracts _____.

2. This is the ocotillo _____.
   It helps the plant move _____.

3. This is the ocotillo _____.
   It helps the plant make _____.

Name: _____

4. This is the ocotillo _____.
   It helps the plant _____.

5. This is the ocotillo _____.
   It helps the plant make _____.

6. This is the ocotillo _____.
   It helps _____ the plant from animals.

Part 3

Instructions: Answer the following questions. (2 points each)

How does the apple flower help the bee survive?

_____

_____

_____

_____

How does the bee help the apple tree reproduce?

_____

_____

_____

_____

How do the bee and apple tree help humans survive?

_____

_____

_____

_____

Name: _____

Part 4

List five things a class of students can do to help hummingbirds survive. (5 points)

_____

_____

_____

_____

_____

_____

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_____

California Education and the Environment Initiative

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