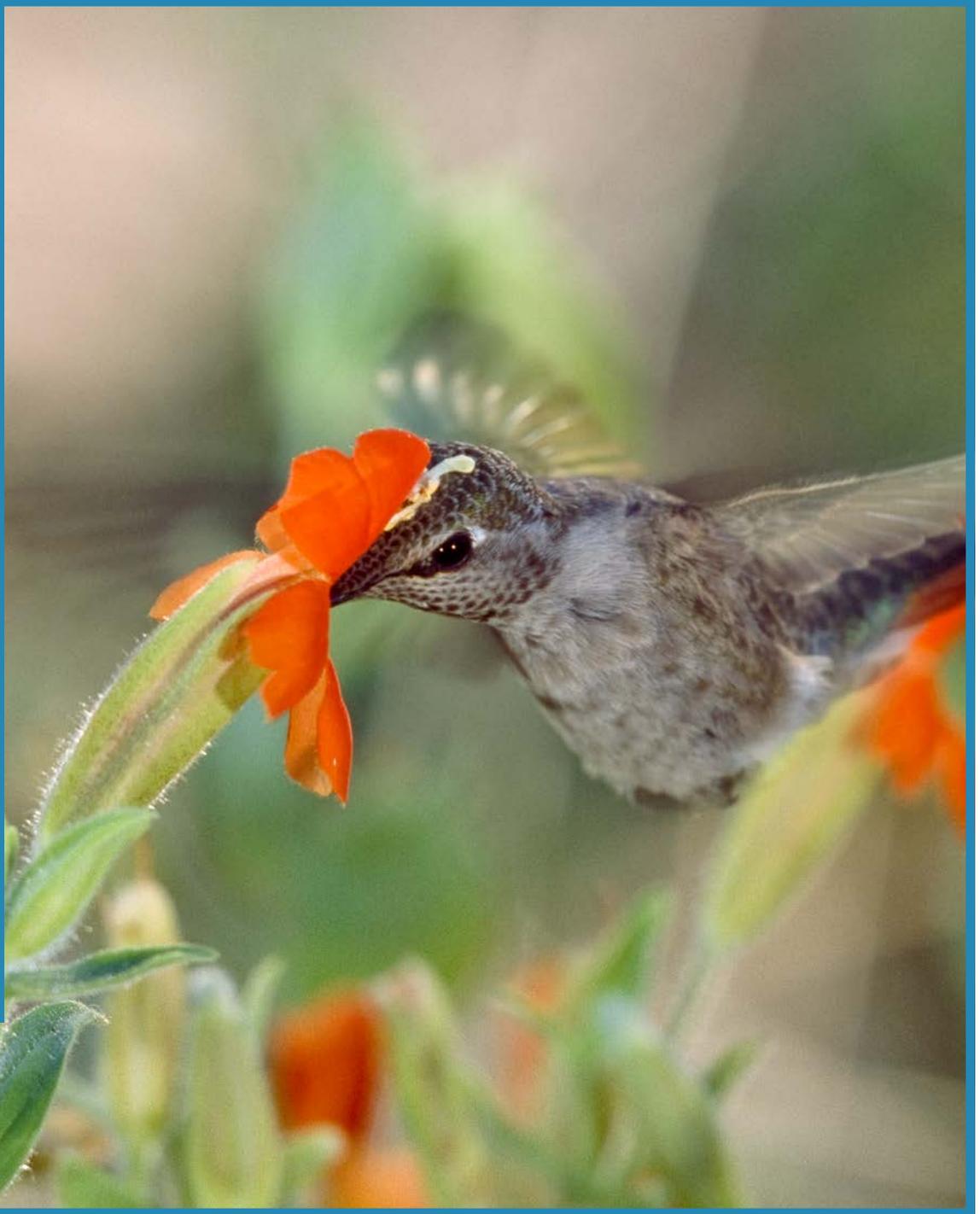


# 3

Science Standard  
3.3.a.

Supports  
ELA Standard:  
Writing 3.2.3.



## 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 Initiative Curriculum is a cooperative endeavor of the following entities:**

California Environmental Protection Agency  
California Natural Resources Agency  
California State Board of Education  
California Department of Education  
Department of Resources Recycling and Recovery (CalRecycle)

### **Key Partners:**

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### **Office of Education and the Environment**

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## **Lesson 1 Structures That Help**

None required for this lesson.

## **Lesson 2 When Structures Are Not Enough!**

Local Region Ring ..... 2

## **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**

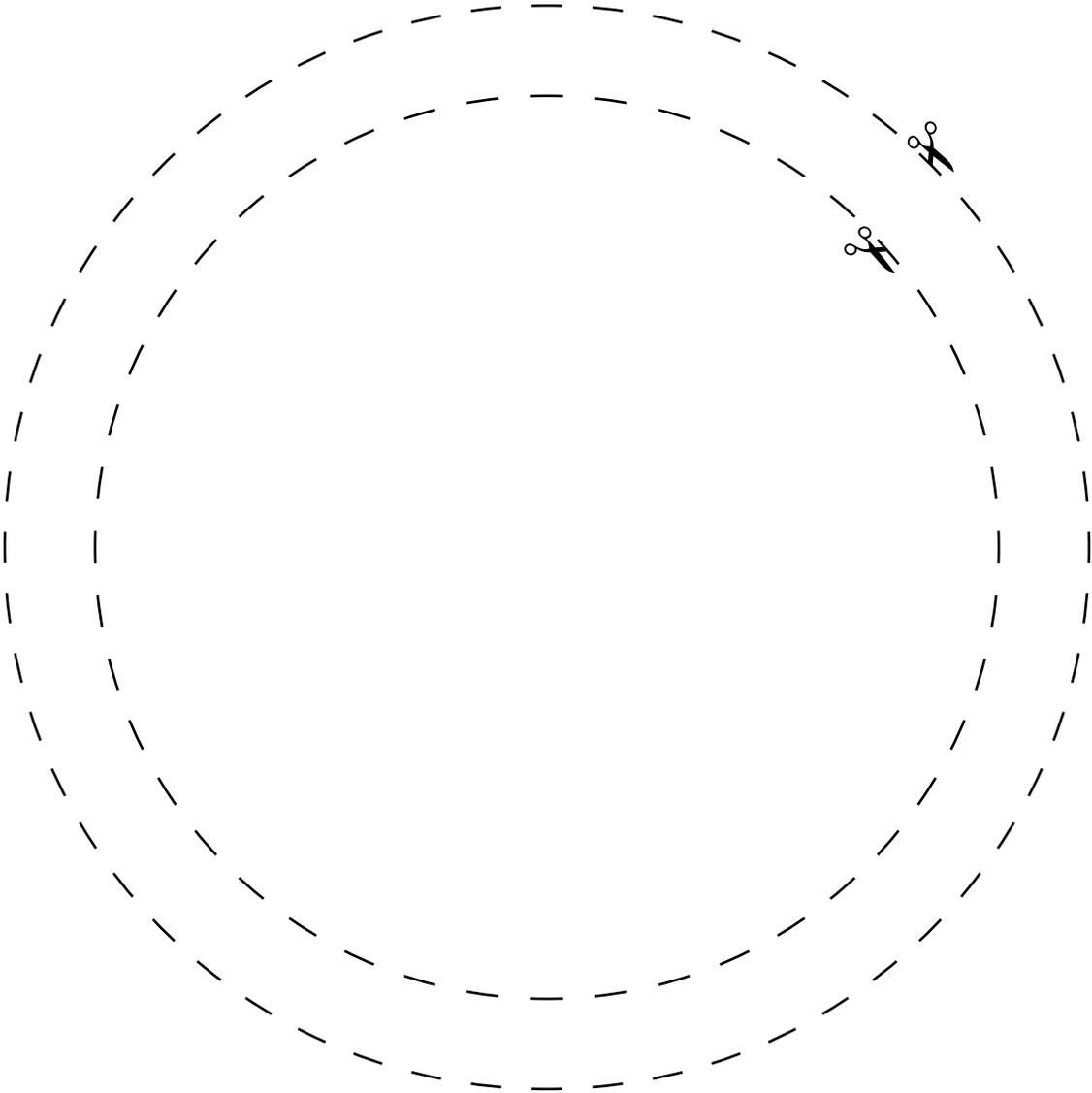
None required for this lesson.

## **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?

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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?

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**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?

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

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Name: \_\_\_\_\_

**Part 1**

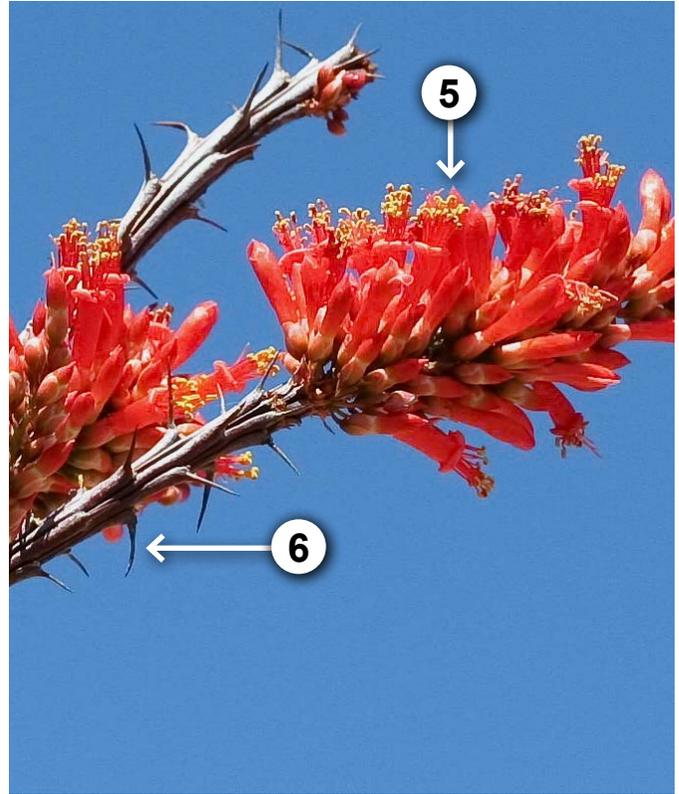
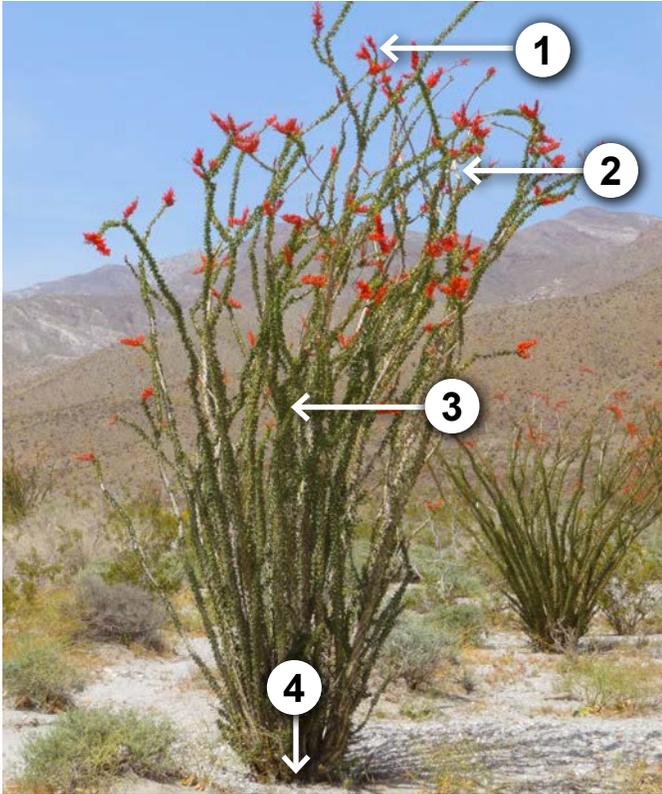
**Instructions:** Look at each photograph. Write answers to the questions on the chart. (2 points each animal)

Animal	What Survival Structure Is Being Used?	What Is the Animal Getting from the Habitat to Survive?
	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

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?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_











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