

# 2

Science Standards  
2.2.e. and 2.2.f.

Supports  
ELA Standard:  
Reading 2.1.10.



# Flowering Plants in Our Changing Environment

## 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:

Special thanks to **Heal the Bay**, sponsor of the EEI law, for their partnership and participation in reviewing portions of the EEI curriculum.

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

### Office of Education and the Environment

1001 I Street • Sacramento, California 95812 • (916) 341-6769  
<http://www.calepa.ca.gov/Education/EEI/>

© Copyright 2010 by the State of California  
All rights reserved.

This publication, or parts thereof, may not be used or reproduced without permission from the Office of Education and the Environment.

These materials may be reproduced by teachers for educational purposes.



## **LESSON 1** Flowers to Fruit

None required for this lesson.

## **LESSON 2** People Depend on Plant Reproduction

None required for this lesson.

## **LESSON 3** Ecosystems Help Plants Grow and Reproduce

None required for this lesson.

## **LESSON 4** Plants Change in a Changing Environment

None required for this lesson.

## **LESSON 5** When People Change Plants' Habitats

None required for this lesson.

## **Assessments**

Understanding Plant Changes—Traditional Unit Assessment Master . . . . . 2

People, Plants, and Nature—Alternative Unit Assessment Master . . . . . 5

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

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

1. Miners grew new orange trees by planting the Mother Orange Tree's

\_\_\_\_\_.

- a. leaves
- b. bark
- c. seeds
- d. roots

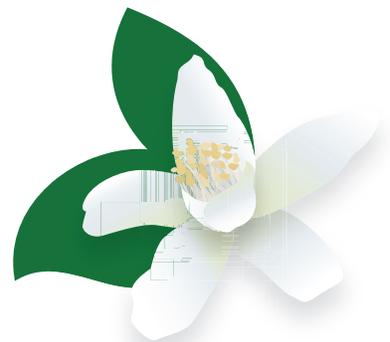
2. The orange tree's flowers turn into \_\_\_\_\_.

- a. fruit
- b. apples
- c. seeds
- d. leaves

3. The fruit of cotton plants give people material to make

\_\_\_\_\_.

- a. houses
- b. desks
- c. apples
- d. clothes



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

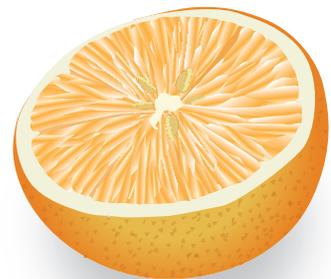
4. To have wood for building and heat, people need lots of \_\_\_\_\_.
- a. blackberries
  - b. oak trees
  - c. cotton plants
  - d. weeds
5. Blackberries need \_\_\_\_\_ from their ecosystem.
- a. water
  - b. some sunlight
  - c. space
  - d. water, some sunlight, and space
6. Joshua tree seeds need \_\_\_\_\_ to sprout.
- a. shade
  - b. drought
  - c. rain
  - d. moths
7. An orange tree may be hurt or killed by a \_\_\_\_\_.
- a. fan
  - b. freeze
  - c. bee
  - d. sprinkler



## Understanding Plant Changes

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

8. During a \_\_\_\_\_, a plant's leaves may wilt.
- a. rain
  - b. wind
  - c. cloudy day
  - d. drought
9. When people ride over dune grass, \_\_\_\_\_.
- a. it is not hurt
  - b. it cannot make seeds
  - c. it will grow back quickly
  - d. it helps the dunes
10. People can stress plants when they \_\_\_\_\_.
- a. water their garden
  - b. fertilize their garden
  - c. spray weed killer
  - d. plant a garden



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

**Instructions:** Use the Word Bank to answer questions about plant parts.

**Word Bank**

seed	tree	fruit	bud	flower
------	------	-------	-----	--------

1. Look at each part of the orange tree. Pick a word from the Word Bank that names the part. Write the word under the plant part. (1 point each)



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

**Instructions:** On the lines below, name the plant parts in the order they grow.

2. Put the names of the plant parts in order to show how an orange tree grows, starting with the bud. (1 point each)

bud

\_\_\_\_\_

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

**Instructions:** Look at the picture below and complete the task.

Plants need certain things to survive. This oak tree gets all it needs from its environment.

3. List four things in this picture that help the oak tree to live and grow.  
(1 point each)



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



**Instructions:** Write the answer to each question. (1 point each)

4. Why are the cotton bolls important to cotton plants?

---

---

---

5. What part of this plant do people use?

---

---

---

6. How are cotton plants used by people?

---

---

---

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



**Instructions:** Write the answer to each question. (1 point each)

7. Why are the apples important to apple trees?

---

---

---

8. What part of this plant do people use?

---

---

---

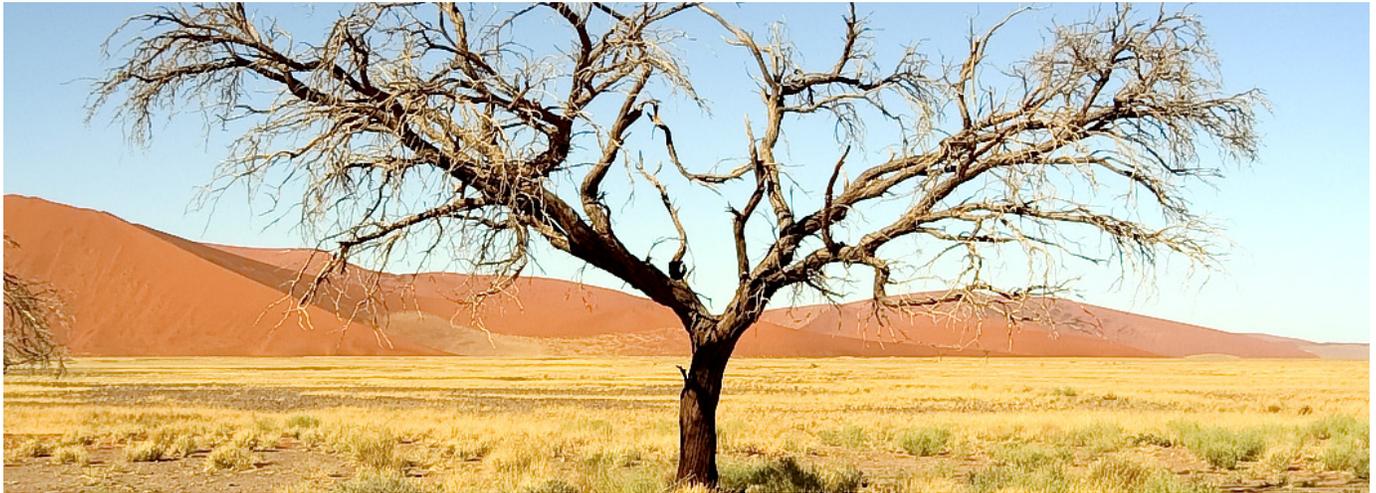
9. How are apple trees used by people?

---

---

---

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



**Instructions:** Look at the photograph above. Circle the correct answer. (1 point each)

10. What is stressing the plants?
- a. the environment
  - b. human activities

**Instructions:** Write the answer to each question. (1 point each)

11. What is happening to the plants?

---

---

---

12. What will happen to the soil?

---

---

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



**Instructions:** Look at the photograph above. Circle the correct answer. (1 point each)

13. What is stressing the plants?
- a. the environment
  - b. human activities

**Instructions:** Write the answer to each question. (1 point each)

14. What is happening to the plants?

---

---

---

15. What is happening to the dune?

---

---





California STATE BOARD OF  
EDUCATION

---

## California Education and the Environment Initiative