

2

Science Standards
2.2.a. and 2.2.b.

Supports
ELA Standard:
Reading 2.2.4.



Cycle of Life

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
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Andrea Lewis, Assistant Secretary for Education and Quality Programs, California Environmental Protection Agency
Mark Leary, Executive Director, California Integrated Waste Management Board
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Key Partners:

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Lesson 1 **Reproduction: An Essential Part of the Life Cycle**

Pine Trees and Bald Eagles 2

Lesson 2 **Eggs and Seeds**

Eggs and Seeds 4

Lesson 3 **Growth and Metamorphosis**

How Animals Grow and Change 6

Lesson 4 **Reproduction Needs: A Monarch’s Story**

Milkweed and Monarchs 8

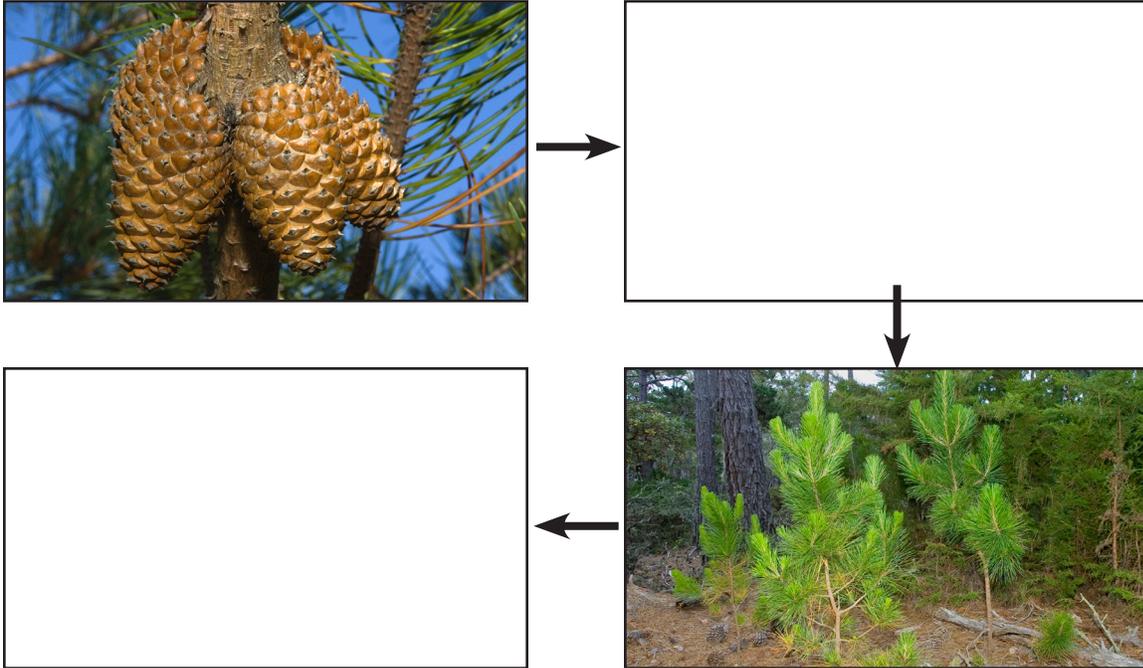
Lesson 5 **Human Uses of Plant and Animal Reproduction**

Farms and Ranches 10

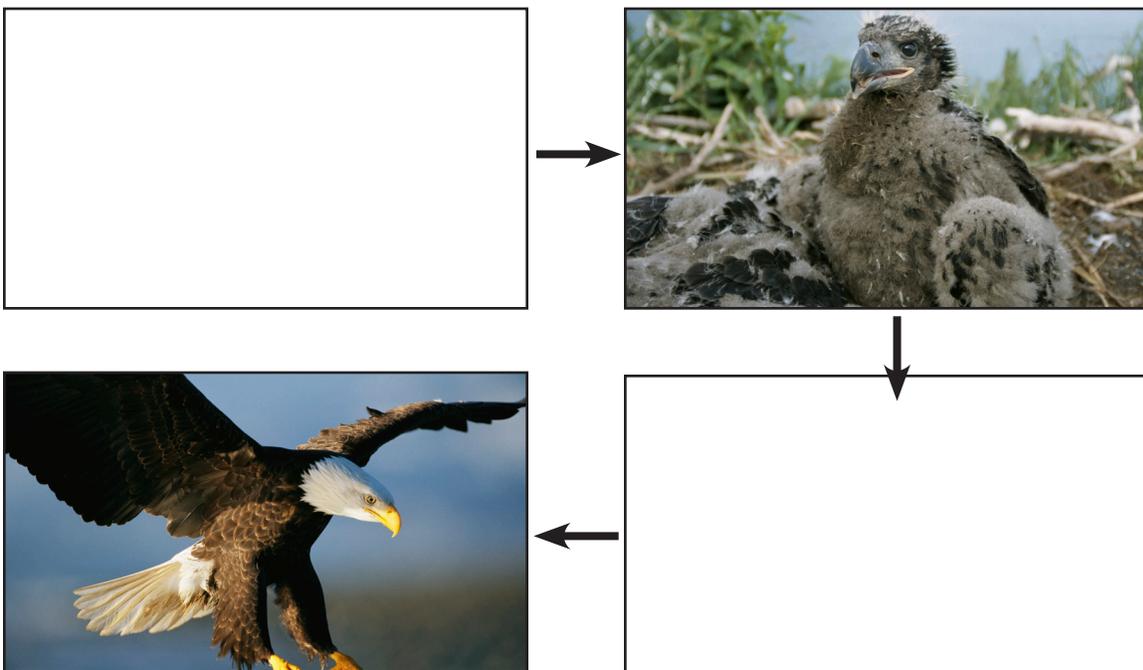
Name: _____

Instructions: Complete the following tasks in the boxes below.

1. Draw in the missing parts of the pine tree life cycle:



2. Draw in the missing parts of the bald eagle life cycle:



Name: _____

Instructions: Use words from the Word Bank to complete the sentences below.

Word Bank

less	offspring	adult	more	grow
------	-----------	-------	------	------

3. Reproduction makes _____ animals and plants.
4. All animals and plants _____ over time.
5. When a living thing is an _____, it can reproduce.
6. Animals and plants have _____ when they reproduce.

Name: _____

Draw the Parts of a Seed	Draw the Parts of an Egg

Instructions: Answer the following questions in the space provided.

1. What is the same about eggs and seeds?

2. What is different about eggs and seeds?

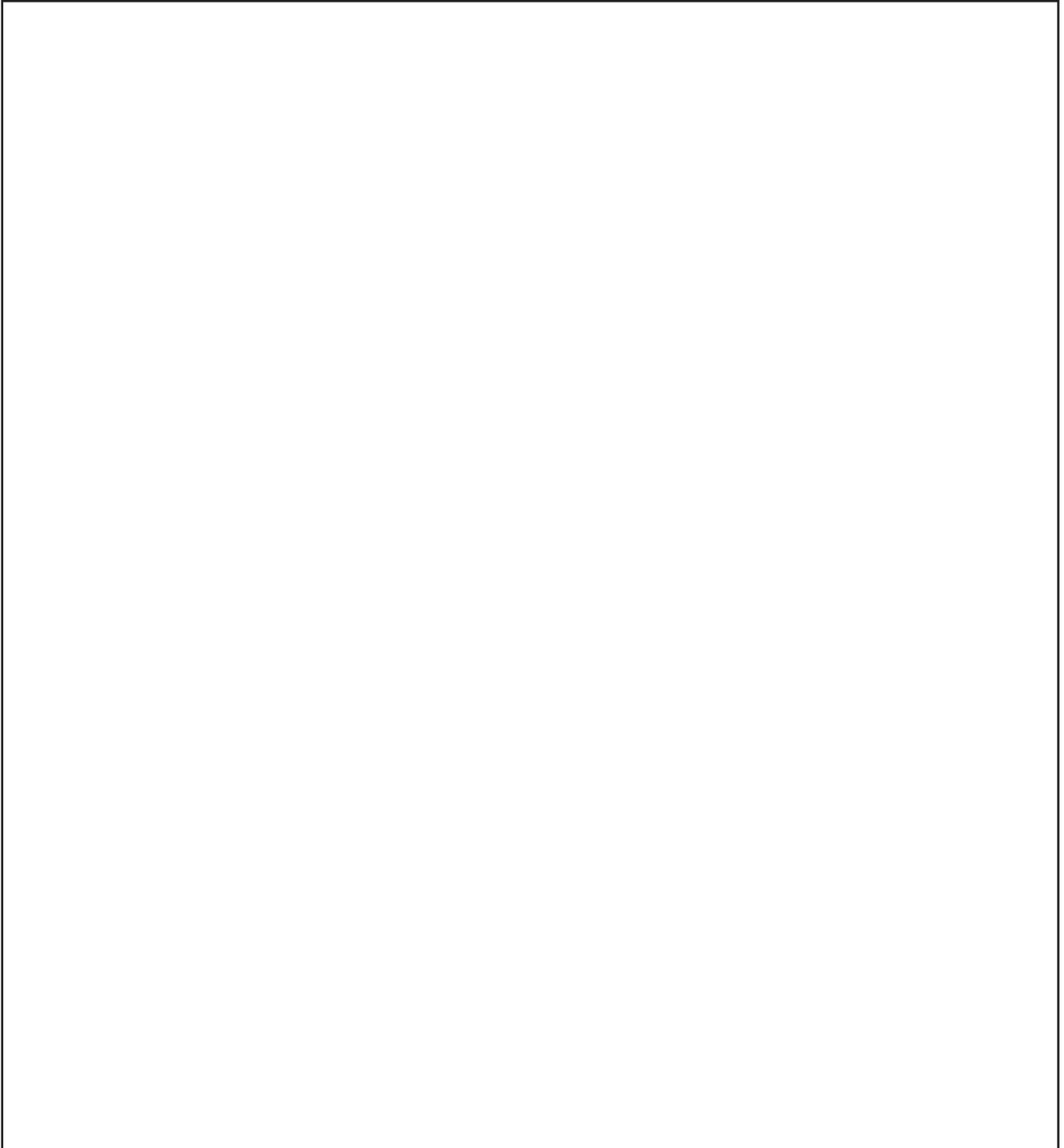
Eggs and Seeds

Lesson 2 | page 2 of 2

Name: _____

Instructions: Complete the task in the box below.

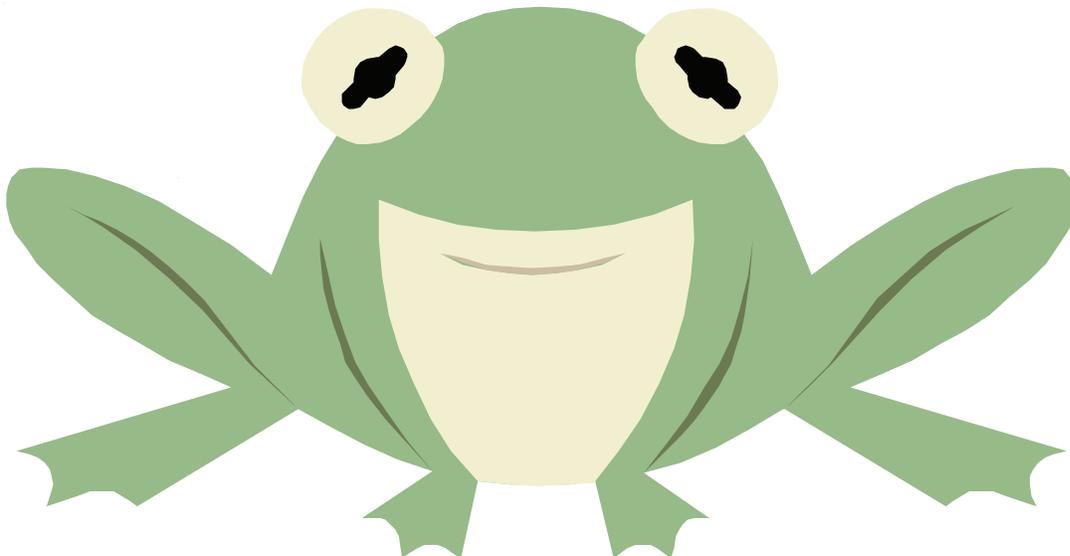
3. Name (or draw) two living things that lay eggs to reproduce.



Name: _____

Instructions: Select the word or phrase that completes each sentence.

1. When an insect egg hatches a _____ comes out.
butterfly larva pupa
2. Squirrels and other mammals do not _____.
reproduce metamorphosize lay eggs
3. Over time, a tadpole grows into a _____.
froglet reptile pond
4. Birds, fish, insects, amphibians, and reptiles all _____.
metamorphosize lay eggs make cocoons



Name: _____

Instructions: Circle the word that best completes each sentence.

1. The monarch butterfly lays its eggs on the _____ of the milkweed.
 - a. sap
 - b. flower
 - c. leaves
 - d. stem

2. Milkweed sap makes monarch caterpillars _____ bad.
 - a. smell
 - b. taste
 - c. look
 - d. feel

3. Monarch butterflies help milkweed plants _____.
 - a. reproduce
 - b. migrate
 - c. grow
 - d. eat

4. Migrating monarchs eat the _____ of milkweed flowers.
 - a. sap
 - b. leaves
 - c. nectar
 - d. flower

Name: _____

5. The number of milkweed plants in California is _____.

- a. going up
- b. going down
- c. staying the same
- d. high

6. The number of monarch butterflies in California is

_____.

- a. going down
- b. going up
- c. staying the same



Name: _____

Instructions: Draw at least six resources that we get from farming and ranching, three from plants and three from animals.



Instructions: Circle the resources that you drew that come from animal reproduction and put stars by the one that come from plant reproduction.

Name: _____

Instructions: Complete the sentences below with words from the Word Bank.

Word Bank

farm	reproduction	resource	grow	ranch
------	--------------	----------	------	-------

1. Food is a _____ that we get from plants and animals.
2. Vegetables are grown on a _____ and chickens are raised on a _____.
3. People _____ plants and raise animals so that they have enough to use.
4. _____ is important because it makes more living things.





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