

5

Science Standard
5.3.b.



Changing States: Water, Natural Systems, and Human Communities

California Education and the Environment Initiative

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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 Evaporation, the Water Cycle, and Human Communities

None required for this Lesson.

LESSON 2 Factors Affecting the Evaporation Rate

None required for this Lesson.

LESSON 3 How the Water Cycle Affects Natural Systems

None required for this Lesson.

LESSON 4 The Cooling Effects of Evaporation

None required for this Lesson.

LESSON 5 The Role of Condensation in Natural Systems

None required for this Lesson.

LESSON 6 Freezing in Natural Systems and Human Communities

None required for this Lesson.

Assessments

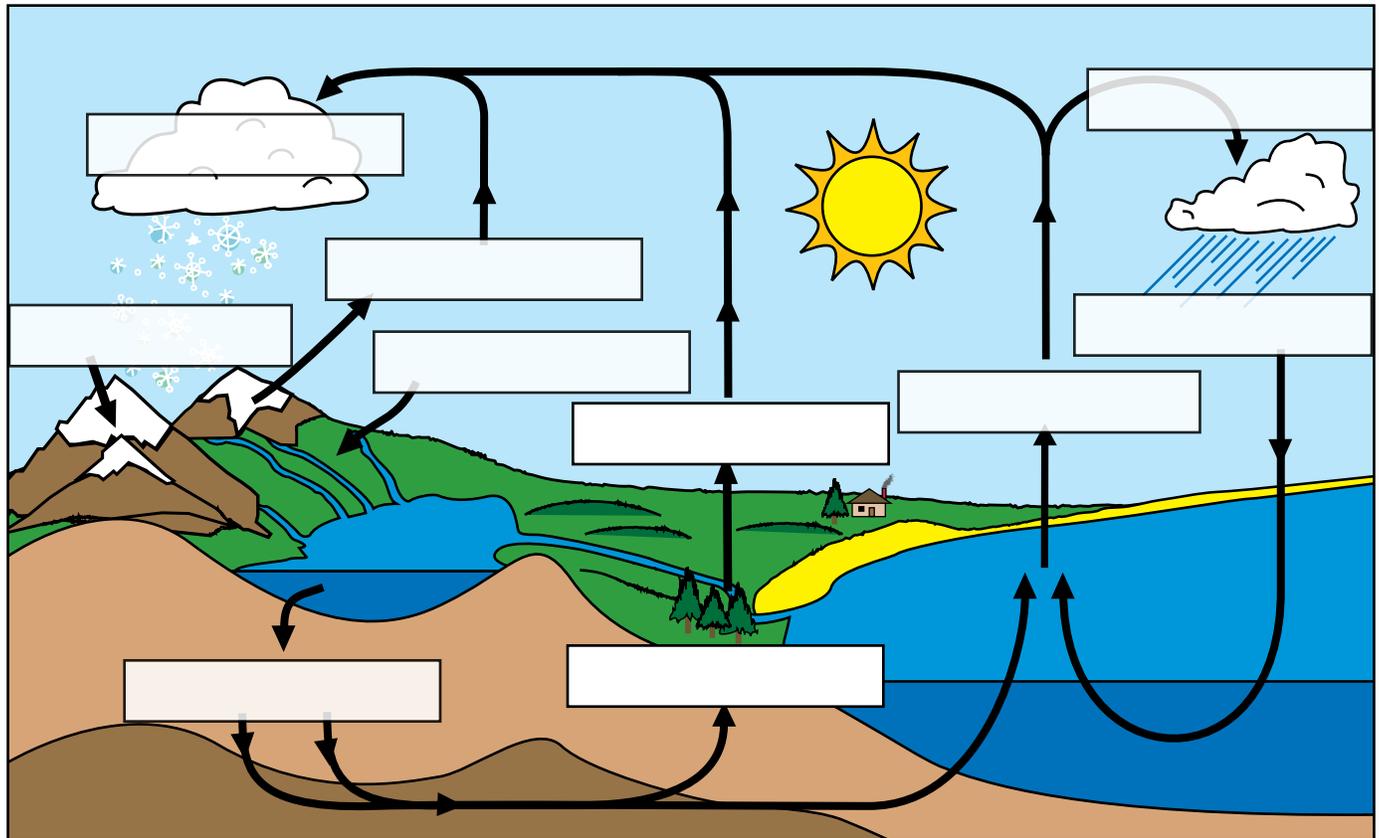
The Changing States of Water—Traditional Unit Assessment Master	2
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Alternative Unit Assessment Master	5

The Changing States of Water

Name: _____

Instructions: Complete the diagram below.

1. Write the name of the following water cycle processes in the spaces on the diagram. Some of them may be written more than once, and some spaces may be left blank: evaporation, condensation, plant uptake, and transpiration. (12 points)



Instructions: Complete the statements below. (3 points each)

2. Evaporation is important to people because it _____

3. Condensation is important to people because it _____

The Changing States of Water

Name: _____

4. Transpiration is important to people because it _____

5. The Sun is an important part of the water cycle because it _____

6. Clouds are important to people because they _____

Instructions: Select the best answer and circle the correct letter. (1 point each)

7. One way to separate salt from saltwater is:
- a. transpiration
 - b. evaporation
 - c. freezing
 - d. condensation
8. When water is a gas it is called:
- a. water vapor
 - b. ice crystals
 - c. frost point
 - d. dew point
9. When water evaporates, its molecules:
- a. disappear
 - b. slow down
 - c. cling together
 - d. take in heat
10. Evaporation speeds up when:
- a. temperatures go up
 - b. there is no more water
 - c. temperatures go down
 - d. there are more clouds
11. Water vapor becomes a liquid during:
- a. transpiration
 - b. condensation
 - c. melting
 - d. evaporation

The Changing States of Water

Name: _____

Instructions: Use the words in the Word Bank to fill in the blanks below. (1 point each)

Word Bank

dew	evaporation	condensation	transpiration
solid	clouds	frost	

11. Through the process of _____, water vapor becomes part of Earth's atmosphere.
12. Water vapor that condenses and then freezes is called _____.
13. Water vapor condenses to a liquid called _____.
14. During _____ plants give off water vapor into the air.

Instructions: Answer the following question in one or more paragraphs. (4 points)

15. How is the water cycle important to people and other living things on Earth?

The Changing States of Water Study Cards

Alternative Unit Assessment Master | page 1 of 3

Name: _____

Instructions:

1. Carefully cut apart your set of **The Changing States of Water Study Cards**.
2. Answer the questions on each card in the space provided. (10 points each).
3. You may use your work from the unit to answer the questions.
4. Work individually to write your answers, but you may review your answers with a partner when you are finished.
5. Turn in your cards when you are finished.

Question	Answer
1. What happens when water evaporates?	1. _____ _____ _____ _____
2. What happens when saltwater is heated?	2. _____ _____ _____ _____
3. Name three factors that affect the rate of evaporation.	3. _____ _____ _____ _____

The Changing States of Water Study Cards

Name: _____

fold



Question	Answer
4. How can frost affect California's economy?	4. _____ _____ _____ _____



Question	Answer
5. How does water vapor become a liquid?	5. _____ _____ _____ _____



Question	Answer
6. How can plants help to cool city areas?	6. _____ _____ _____ _____



Question	Answer
7. How does transpiration help plants?	7. _____ _____ _____ _____



The Changing States of Water Study Cards

Name: _____

fold

Question	Answer
8. What is dew?	8. _____ _____ _____ _____
9. When does condensation occur?	9. _____ _____ _____ _____
10. In what form do water molecules have the least heat energy?	10. _____ _____ _____ _____



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