

**Science**  
**eLearning**  
**Ms. Hammond**

**Name** \_\_\_\_\_  
**Date** \_\_\_\_\_

In the event that ACAS is closed due to inclement weather, students are expected to complete the assignments listed below. Should students have questions regarding these assignments, they may contact me by e-mail (maryellenhammond@acalt.org) between 9:30 a.m.-11:00 a.m. and 1:00 p.m.-2:30 p.m. to receive assistance. These assignments are due within two days of our return to school. **Failure to turn in all work within two days of returning to school will result in a zero for each day, and no seat hour will be awarded for the day(s) missed.**

Students should complete the attached worksheets.

## Activity

## 2

IRA/NCTE

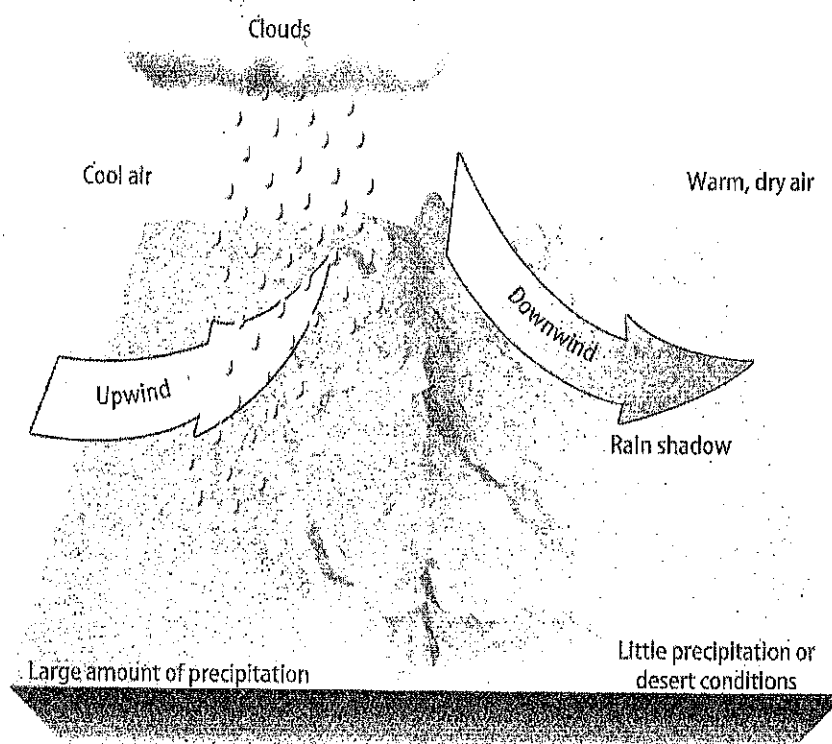
## Standard 1

**Directions:** Read the passage below and examine the diagram. Then answer the questions.

A rain shadow is an area that receives little rainfall because it is on the downwind side of a mountain or mountain range. When winds encounter a mountain, air is forced to go up and over the mountain. As the air rises, it expands and cools. Cool air is unable to hold as much moisture as warm air, so the moisture often condenses, forming clouds. Precipitation then falls from the clouds on the upwind side of the mountain.

As air moves over the mountains and begins to descend on the downwind side, it becomes warmer. Clouds do not form easily in the warmer air. Because the warm, dry winds on the downwind side of the mountains produce very little precipitation, this area is called the rain shadow. In some parts of the world, rain shadow areas have become deserts because they receive so little rainfall. California's Death Valley is part of a rain shadow.

The following diagram illustrates how a rain shadow occurs.



**Activity 2** (continued)**Multiple  
Choice**

1. What causes clouds to form on the upwind side of mountain ranges?
  - a. The warm winds cause moisture to condense, forming clouds.
  - b. The mountains keep the air from circulating, forming clouds.
  - c. The strong winds push the air into the mountains, forming clouds.
  - d. The air rises and cools as it hits the mountain, forming clouds.
2. Land in a rain shadow area most likely would
  - a. be covered with thick forests.
  - b. be desert.
  - c. have many lakes.
  - d. be used for farming.
3. Why did the author write this passage?
  - a. to discuss how clouds form
  - b. to tell how deserts are formed
  - c. to give information about rain shadows
  - d. to explain how mountains affect weather
4. Which detail is NOT supported in the passage?
  - a. Some rain shadows are deserts.
  - b. Death Valley is in California.
  - c. Air cools and expands as it rises.
  - d. The downwind side receives more precipitation.

**Short  
Answer**

5. What three questions could you ask someone to determine whether they live in a rain shadow?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Do you think a written explanation or a detailed drawing is most useful in explaining rain shadows? Explain.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Activity

8

## IRA/NCTE

## Standard 4

**Directions:** Read the article below, then answer the questions.

### On the Edge of Extinction

In 1900, there were an estimated 100,000 tigers on Earth. Today, only between 5,000 and 7,500 remain. Total extinction of tigers by 2010 is a very real threat.

Why are tigers disappearing? The criminal act of poaching is the main reason. Poaching is illegal, but it is very profitable. Tiger parts are worth large amounts of money. The parts of a single tiger can be worth \$5 million. In the past, the hide of the tiger was a great prize; now the prize is the tiger's bones. The bones are used to make many traditional Asian medicines. Many of these medicines are exported from Asia, some of them to the United States. In 1950, about 4,000 South China tigers lived in the wild. By 1998, this number had dropped to less than 30 wild tigers.

Even though the U. S. Congress passed legislation to stop the import of tiger parts, poachers continue to get around the rules. They smuggle tiger parts in with other legal products. The United

States has fewer than 100 wildlife inspectors to check products coming into the country. It is not difficult to get tiger parts into the country without being caught. Even when inspectors find medicines made with tiger bones, they cannot always prove it. The high temperature needed to make the medicines makes it impossible to tell whether the bone was that of a tiger or another animal.

You would expect most tiger products to be sold in secret in the United States. Many of them are sold openly in small medicine shops in some of the nation's larger cities. The demand for the products is great enough to outweigh the risk of getting caught selling them.

Some groups are working to decrease the number of tiger products sold, by helping find other options. For example, the bones of wild mole rats, a species that is abundant, have been used to make medicines. Finding alternatives to create less demand for tiger parts is one of the first steps to ending tiger poaching.

### Multiple Choice

- The main idea of this article is that
  - poaching tigers is illegal.
  - tiger bones are used in medicine.
  - more needs to be done to stop the poaching of tigers.
  - poachers smuggle tiger parts into the United States.
- This passage does NOT discuss
  - where tiger medicines are sold in the United States.
  - how tiger parts are exported from Asia.
  - alternatives to using tiger bones in medicine.
  - the number of tigers living in the wild.
- Why did the author write this passage?
  - to show people how to smuggle tiger parts
  - to tell people where to find tiger medicines
  - to inform people about tiger poaching
  - to tell people which tiger part to use for laziness

**Activity 8** (continued)

**Short  
Answer**

- 4. In the third paragraph, what is the meaning of the word *legislation*?
  - a. plans
  - b. ideas
  - c. tests
  - d. laws

- 5. If you wanted to persuade someone that tiger poaching is wrong, do you think a written, spoken, or visual message might be most effective? Why?

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- 6. What support does the author give for the statement, "Total extinction of tigers by 2010 is a very real threat"? Give two examples.

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