

Name \_\_\_\_\_

Date \_\_\_\_\_

## **Lesson 3—How Do Movements of the Crust Change Landforms?**

### **1. Inquiry Skill Practice—Model**

You can simulate a volcano with slow-flowing lava by using maple syrup. What would you use to simulate a fast-flowing lava volcano? Circle the best answer. Explain your reasoning.

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**molasses  
whipped cream  
orange juice  
glue**

### **2. Use Vocabulary**

Match the clue on the left to the term on the right.

- |  |                     |
|--|---------------------|
| _____ a break in Earth's crust   | <b>A.</b> lava      |
| _____ molten rock that flows out of a vent and arrives at Earth's surface                          | <b>B.</b> fault     |
| _____ the point on Earth's surface that is directly above where an earthquake's energy is released | <b>C.</b> magma     |
| _____ molten rock under Earth's surface  | <b>D.</b> epicenter |

### **3. Reading Skill Practice—Cause and Effect**

Read the selection. Describe the cause and effect.

Plates surrounding the North American plate moved toward each other. These plates pushed together with enormous pressure. This pressure snapped a block of rock in the middle of the North American plate. Then this rock was forced straight up from the flat, surrounding land and became the mountain peak we now call the Grand Teton.

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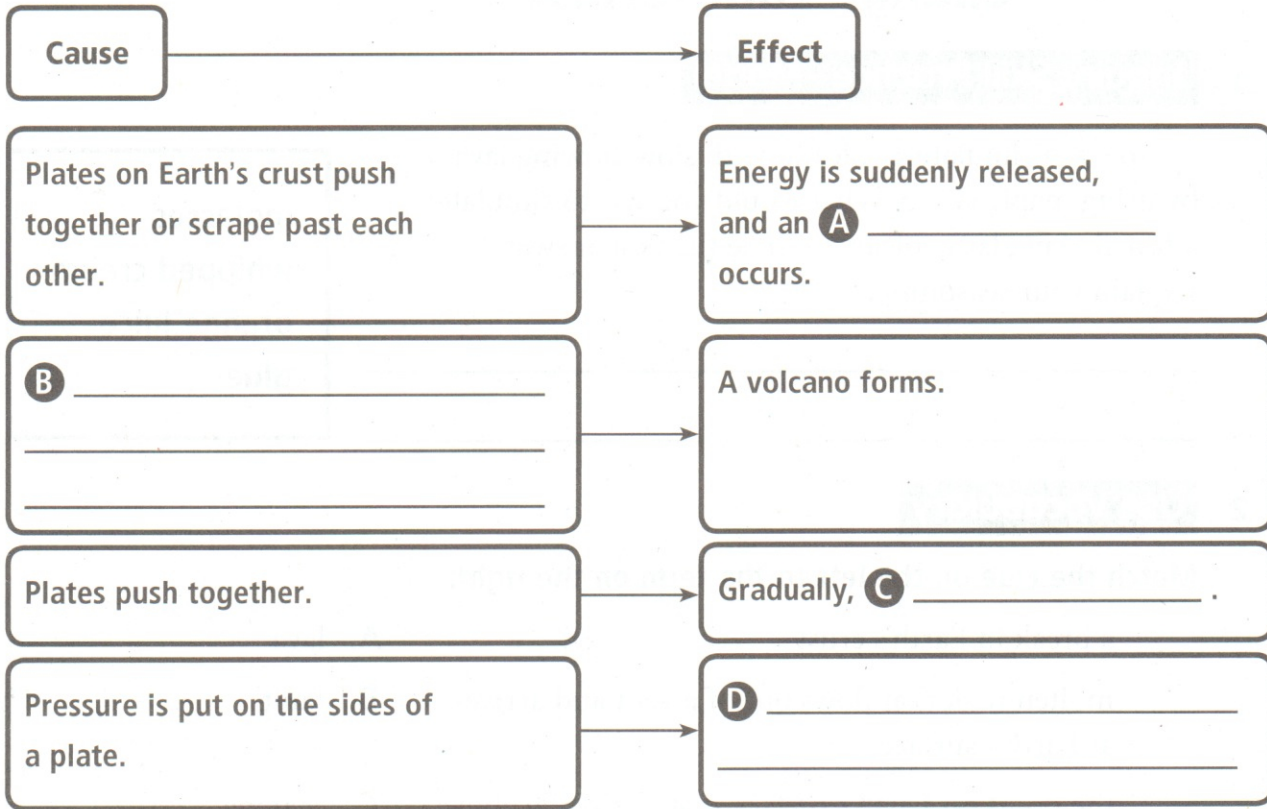
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Name \_\_\_\_\_

4.  **Cause and Effect**

Complete the graphic organizer.



5. **Critical Thinking and Problem Solving**

Suppose earthquakes happened for seven days in a row. The first reached 2.5 on the Richter scale. The remaining earthquakes rose on the scale by 0.3 each day. What did the last earthquake measure on the Richter scale? How did you get your answer?

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**Lesson 4—How Do Humans Change Landforms?****1. Inquiry Skill Practice—Identify Variables**

As an experiment, a scientist adjusts a shake table so it will rock from side to side and move up and down less. Explain which of these variables the scientist is changing: the location of the earthquake, its length, its strength, the direction of its movement.

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**2. Use Vocabulary**

Complete each sentence with the correct term from the box.

A \_\_\_\_\_ records earthquakes with a

\_\_\_\_\_.

A \_\_\_\_\_ keeps floodwaters from spreading out over the land.

A \_\_\_\_\_ traps sand as the ocean current moves past it.

|   |
|---|
| jetty<br>seismologist<br>seismograph<br>levee |
|---|

3.

**Reading Skill Practice—Main Ideas and Details**

Read the selection. Underline the main idea. List at least two details about the main idea.

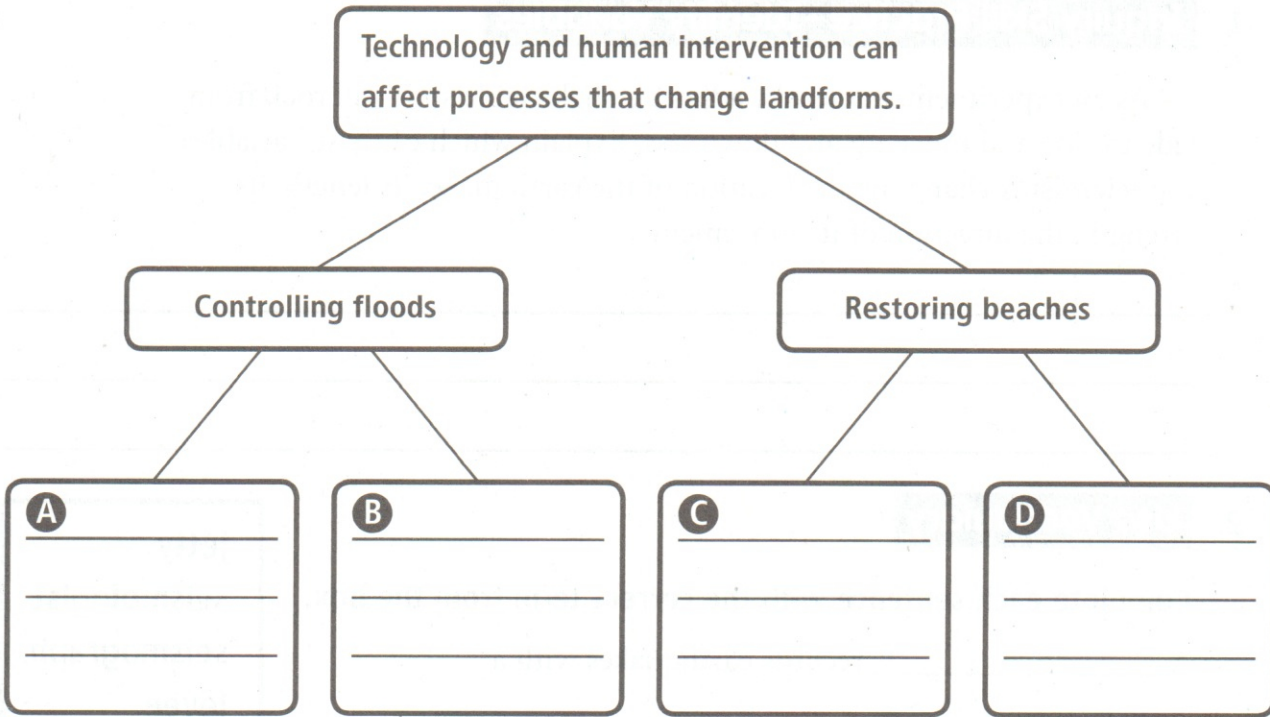
On November 6, 1977, the Toccoa Falls Dam gave way. Made of earth, this dam was 90 miles north of Atlanta. It had created a 55-acre lake. A light rain began on Wednesday, November 2. Over the next three days, the rain fell faster and harder. More than three and a half inches fell Saturday evening. The rain total was seven inches. By early Sunday morning, the dam could no longer hold back the water. It broke, releasing floodwaters that thundered through the canyon below it at 120 miles per hour. Thirty-nine people died when they were unable to get out of the way.

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Name \_\_\_\_\_

4.  **Main Idea and Details**

Complete the graphic organizer.



5. **Critical Thinking and Problem Solving**

Does it make sense for people to try to stop the natural erosion on beaches? Explain your answer.

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Name \_\_\_\_\_

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## Landforms of Georgia

### A. Multiple-Meaning Words

Some words have more than one meaning. Clues from the sentence tell you which meaning is being used. Circle the correct word meaning.

1. The movement of plates as they push together or pull apart causes rapid changes in Earth's surface.  
circular serving dish from which food is eaten  
blocks of crust and upper mantle rock
2. The farms on the delta had fertile soil for growing crops.  
the sediment deposited at the mouth of a river  
the fourth letter of the Greek alphabet
3. This shed, which was built on a fault, fell apart during the earthquake.  
break in Earth's crust  
blame for something done wrong

### B. Compound Words

A compound word is made up of two smaller words. Write the compound word made of the two smaller words. Then write a meaning for the compound word. You can use a glossary to find the word's meaning if you need to.

4. earth + quake \_\_\_\_\_

\_\_\_\_\_

5. sink + hole \_\_\_\_\_

\_\_\_\_\_

6. land + form \_\_\_\_\_

\_\_\_\_\_

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