

Name \_\_\_\_\_

Date \_\_\_\_\_

Use with textbook pages 386-395.

## Shaping Earth's surface

### Vocabulary

acidic	glacier
biological	karst
calcium carbonate	landslide
cave	physical
chemical	rapids
deposition	sinkhole
erosion	striations

Use the terms in the vocabulary box to fill in the blanks. Use each term only once.  
You do not need to use all the terms.

- Weathering is called \_\_\_\_\_ if the rock that breaks down stays the same type of rock. Weathering is called \_\_\_\_\_ if the rock that breaks down becomes a different substance. If the weathering is caused by living things, it is then called \_\_\_\_\_.
- \_\_\_\_\_ moves large and small rock pieces from one place to another. \_\_\_\_\_ drops or leaves rock pieces that have been carried by water from one place to another.
- Rainwater is slightly \_\_\_\_\_. When it reaches the ground, the acidic rainwater dissolves some substances from rock on Earth's surface.
- Acidic water dissolves rock that has \_\_\_\_\_ in it. As time passes, bigger and bigger gaps form large hollows in the rock, and we call this a \_\_\_\_\_.
- If the gaps caused by the water form near the surface, the ground at the surface may collapse. This causes a \_\_\_\_\_ to form. An area of land that has lots of sinkholes is called a \_\_\_\_\_.
- As water moves over Earth's surface, it can push rocks from one place to another. This happens especially in \_\_\_\_\_, which are places of fast-moving water in a steep, rocky river.
- As glaciers move over Earth's surface, the ice acts like sandpaper. The scratch marks that are visible when the ice melts are called \_\_\_\_\_.

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## The effect of water

Answer the questions below.

1. What are the three main processes by which water breaks down the Earth's landscape?

\_\_\_\_\_

2. What does weathering do?

\_\_\_\_\_

\_\_\_\_\_

3. What is an example of physical weathering?

\_\_\_\_\_

4. What is an example of chemical weathering?

\_\_\_\_\_

5. How is erosion different from weathering?

\_\_\_\_\_

\_\_\_\_\_

6. How does a cave form?

\_\_\_\_\_

\_\_\_\_\_

7. How does a karst form?

\_\_\_\_\_

\_\_\_\_\_

8. How does water erode rocks in rivers?

\_\_\_\_\_

\_\_\_\_\_

9. How does water erode rock on steep hills?

\_\_\_\_\_

10. How is a delta formed?

\_\_\_\_\_

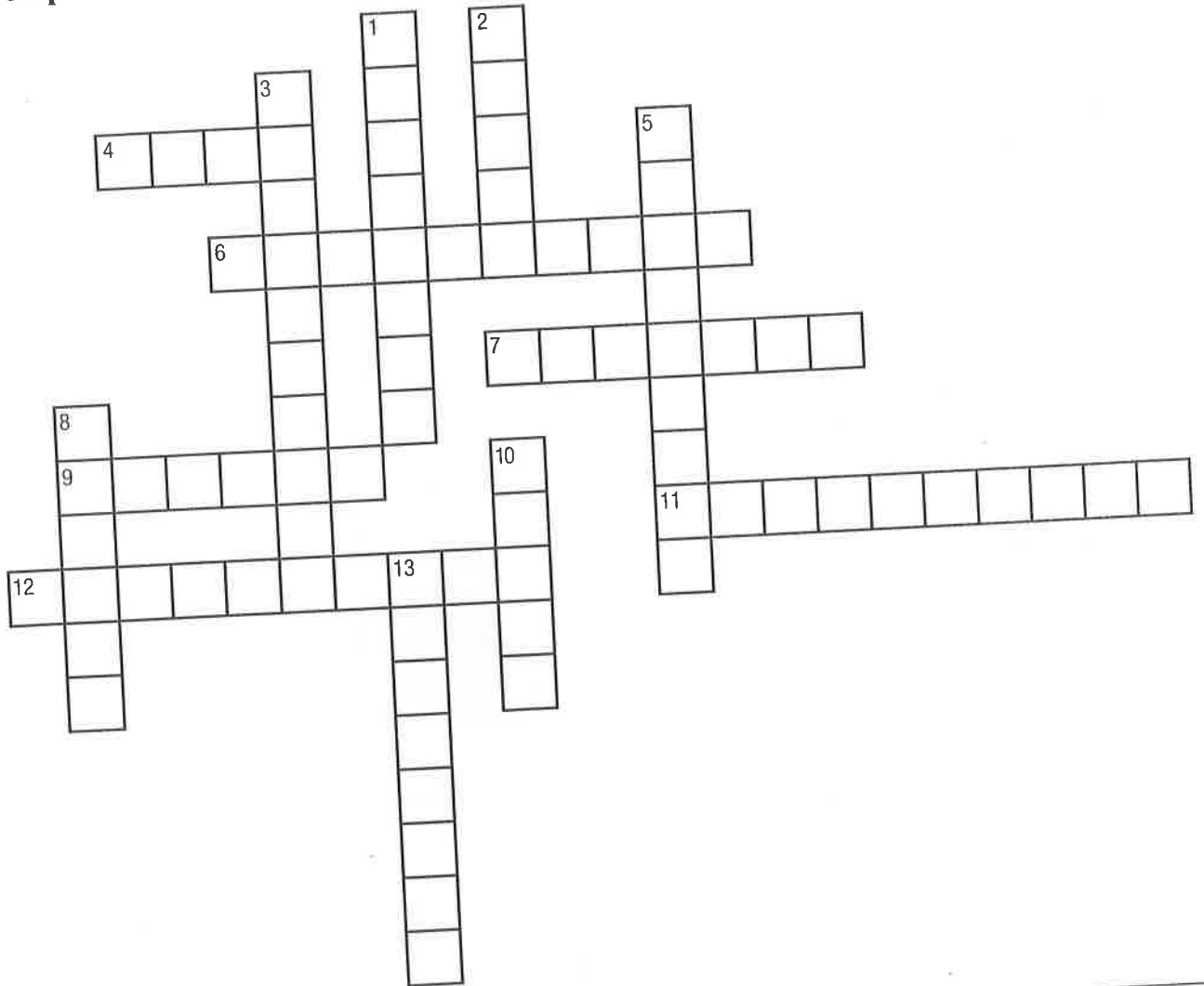
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# Earth's surface puzzle

Complete the following crossword puzzle.



**Across**

- 4. a large underground hollow in rock
- 6. scratch marks cut into rock by glaciers moving over it
- 7. the movement of rock pieces from one place to another
- 9. rainfall that can dissolve calcium carbonate
- 11. the process in which eroded rocks are dropped off
- 12. weathering caused by living things

**Down**

- 1. weathering in which rock stays the same type of rock
- 2. an area of many sinkholes
- 3. the gradual process of breaking down rock into smaller pieces
- 5. a sudden, rapid movement of rock material down the slope of a hill or mountain
- 8. an area of fast moving, churning water in a steep, rocky river
- 10. fan-shaped area of rock deposits
- 13. weathering in which rock is changed into another type of rock