



# Weathering and Erosion

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Multiple Choice

Circle the best answer for each question.

1. Which process creates caves in limestone regions?

- A) Wind abrasion wearing away the rock surface
- B) Acidic groundwater dissolving the limestone
- C) Glaciers grinding through the rock layer
- D) Tree roots splitting the rock apart

2. A farmer notices that topsoil washes away during every rainstorm. Which solution would best reduce this erosion?

- A) Remove all plants so water runs off faster
- B) Add more gravel to the surface
- C) Plant cover crops with deep roots
- D) Dig deeper channels for the water

3. What evidence shows that a glacier once moved through a valley?

- A) Sand dunes on the valley floor
- B) A V-shaped valley with a river at the bottom
- C) A U-shaped valley with scratched bedrock
- D) Sea arches along the valley walls

4. Which pair correctly matches the weathering type to its example?

- A) Physical — acid rain dissolving marble
- B) Chemical — ice splitting a boulder
- C) Physical — roots prying apart sidewalk cracks
- D) Chemical — wind blowing sand against a cliff

## Part B: Fill in the Blank

Write the correct answer on each line.

1. A meander is a wide, looping \_\_\_\_\_ in a river caused by erosion on the outer bank.
2. Lichens release \_\_\_\_\_ that slowly dissolve the surface of rocks they grow on.
3. An oxbow \_\_\_\_\_ forms when a river meander gets cut off from the main channel.
4. The breakdown of rock by heating and cooling throughout the day is called \_\_\_\_\_ weathering.
5. Retaining walls along highways prevent \_\_\_\_\_ from sliding onto the road.

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**Part B: Fill in the Blank**

Write the correct answer on each line.

1. A meander is a wide, looping curve in a river caused by erosion on the outer bank.
2. Lichens release acids that slowly dissolve the surface of rocks they grow on.
3. An oxbow lake forms when a river meander gets cut off from the main channel.
4. The breakdown of rock by heating and cooling throughout the day is called physical weathering.
5. Retaining walls along highways prevent rocks from sliding onto the road.