



Weathering and Erosion

Name: _____

Date: _____

Grade: Grade 4

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: Sand dunes are created by rivers depositing sand at the bottom of the ocean.

Rewrite: _____

2. Fix the sentence: Physical weathering changes the minerals inside a rock into new substances.

Rewrite: _____

3. Fix the sentence: A moraine is a valley carved by flowing water over thousands of years.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- Ocean waves pounding against sea cliffs is an example of _____ weathering.
- A _____ is a large, slow-moving mass of ice that reshapes the land as it flows.
- The wearing away of rock by particles carried in wind, water, or ice is called _____.
- When a river slows down and drops the sediment it was carrying, the process is called _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Give one example of chemical weathering and explain what causes it.

2. Why does a river carry more sediment during a heavy rainstorm than on a calm day?

Answer Key · Weathering and Erosion · Grade: Grade 4

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: Sand dunes are created by rivers depositing sand at the bottom of the ocean.

Rewrite: Sand dunes are created by wind depositing sand in dry, open areas like deserts or coastlines.

2. Fix the sentence: Physical weathering changes the minerals inside a rock into new substances.

Rewrite: Chemical weathering changes the minerals inside a rock into new substances, while physical weathering only breaks the rock into smaller pieces.

3. Fix the sentence: A moraine is a valley carved by flowing water over thousands of years.

Rewrite: A moraine is a ridge of rocks and sediment left behind by a glacier as it melts or retreats.

Part B: Fill in the Blank

Write the missing word or number on each line.

- Ocean waves pounding against sea cliffs is an example of physical weathering.
- A glacier is a large, slow-moving mass of ice that reshapes the land as it flows.
- The wearing away of rock by particles carried in wind, water, or ice is called abrasion.
- When a river slows down and drops the sediment it was carrying, the process is called deposition.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Give one example of chemical weathering and explain what causes it.

When rainwater mixes with carbon dioxide in the air, it forms a weak acid. This acid slowly dissolves limestone and creates caves or sinkholes over time.

2. Why does a river carry more sediment during a heavy rainstorm than on a calm day?

During a heavy rainstorm the river flows faster and has more water. The extra speed and force allow it to pick up and carry larger and heavier pieces of sediment.
