



Earth's Changing Surface

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: Physical weathering happen when ice freezes inside rock cracks.

Rewrite: _____

2. Fix the sentence: Acid rain dissolve the limestone on old statues slowly.

Rewrite: _____

3. Fix the sentence: Tree roots growing into cracks breaks rocks apart over time.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. When water freezes inside a rock crack, it expands and causes _____ weathering.
2. Acid rain reacting with limestone to dissolve it is an example of _____ weathering.
3. Tree roots pushing into stone cracks is called _____ weathering.
4. All weathering processes work to break down rocks into smaller pieces called _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain how freezing water can crack a large rock over many winters.

2. Give one example of biological weathering you might see near your school.

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Part B: Fill in the Blank

Write the missing word or number on each line.

1. When water freezes inside a rock crack, it expands and causes physical weathering.
2. Acid rain reacting with limestone to dissolve it is an example of chemical weathering.
3. Tree roots pushing into stone cracks is called biological weathering.
4. All weathering processes work to break down rocks into smaller pieces called sediment.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain how freezing water can crack a large rock over many winters.

Water seeps into tiny rock cracks, then freezes and expands about 9 percent. The ice pushes the crack walls apart. After many freeze-thaw cycles, the crack grows until the rock splits.

2. Give one example of biological weathering you might see near your school.

Tree roots growing under a sidewalk can crack the concrete as they push upward. Mosses and lichens on rocks also release weak acids that slowly break the rock surface.
