Weathering and Erosion

Name: _____ Date: _____ Grade: Grade 4

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Tree roots growing into rock cracks cause _____ weathering.
2. When carbon dioxide mixes with rainwater it forms a weak _____ that dissolves limestone.
3. A V-shaped valley is carved by a fast-flowing _____ .
4. Wind erosion is strongest in flat, dry areas like _____ .
5. Gravity pulls loose rocks downhill in an event called a _____ .
6. A moraine is a ridge of sediment left behind by a _____ .
7. Ocean waves erode cliffs along the _____ .
8. Sediment that settles at the bottom of a lake is an example of _____ .
9. The repeated freezing and thawing of water in rock cracks is called frost _____ .

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

physical weathering	→ _____	sediment dropped in a new place
chemical weathering	→ _____	rock broken by ice or roots
erosion	→ _____	minerals changed by acid rain
deposition	→ _____	sediment carried away by wind or water

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Tree roots growing into rock cracks cause **physical** weathering.
2. When carbon dioxide mixes with rainwater it forms a weak **acid** that dissolves limestone.
3. A V-shaped valley is carved by a fast-flowing **river** .
4. Wind erosion is strongest in flat, dry areas like **deserts** .
5. Gravity pulls loose rocks downhill in an event called a **landslide** .
6. A moraine is a ridge of sediment left behind by a **glacier** .
7. Ocean waves erode cliffs along the **coastline** .
8. Sediment that settles at the bottom of a lake is an example of **deposition** .
9. The repeated freezing and thawing of water in rock cracks is called frost **wedging** .

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

physical weathering	→ **rock broken by ice or roots**	sediment dropped in a new place
chemical weathering	→ **minerals changed by acid rain**	rock broken by ice or roots
erosion	→ **sediment carried away by wind or water**	minerals changed by acid rain
deposition	→ **sediment dropped in a new place**	sediment carried away by wind or water