

Name \_\_\_\_\_

## Rock Breakers Challenge

**Instructions:** Below is a list of scenarios where rocks change or break down over time. **Match each example to the correct type of weathering:**

- **P** = Physical Weathering (mechanical forces breaking rocks apart without changing their composition)
- **C** = Chemical Weathering (chemical changes that alter a rock's minerals)
- **B** = Biological Weathering (plants, animals, or microbes breaking rocks down)

Write the letter **P**, **C**, or **B** next to each example.

1. Tree roots grow into cracks in a rock, slowly prying it apart.
2. Rainwater mixes with carbon dioxide in the air, forming weak acid that dissolves limestone.
3. Repeated freezing and thawing of water in rock cracks causes the rock to split.
4. Lichens release acids that slowly dissolve minerals on a rock's surface.
5. Iron in rocks reacts with oxygen, forming reddish-brown rust.
6. Burrowing animals loosen and break apart soil and rock.
7. Ocean waves crash against cliffs, breaking pieces off over time.
8. Acid rain eats away at marble statues and buildings.
9. Plant stems push up through pavement, breaking it apart.
10. Rocks crack and peel in layers due to intense daytime heat and cool nights in deserts.

