

The Earth Test Yourself 3

Match and Draw

Match the type of weathering with its example **and** write a sentence to explain how each method erodes rocks.

physical weathering

acid rain

biological weathering

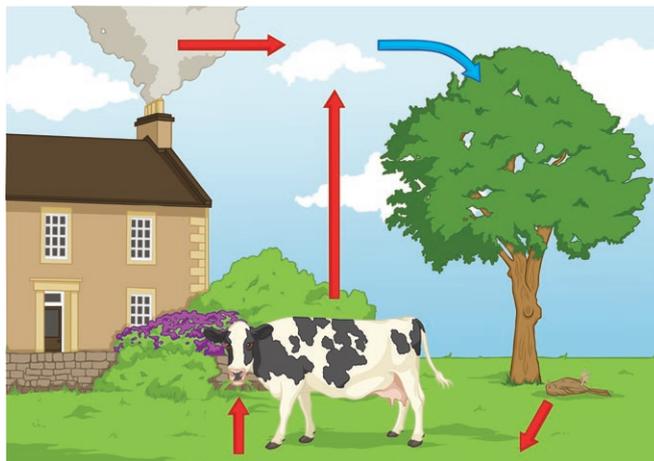
freeze-thaw

chemical weathering

animals and plants

The Carbon Cycle

The diagram below shows a simplified version of the carbon cycle. Use the diagram to answer the following questions:



- Carbon dioxide is removed from the atmosphere by plants. Name the process by which plants remove this carbon dioxide.
- Name 2 ways that carbon dioxide is returned to the atmosphere:
 - 1.
 - 2.
- Write the equations for:

Photosynthesis:

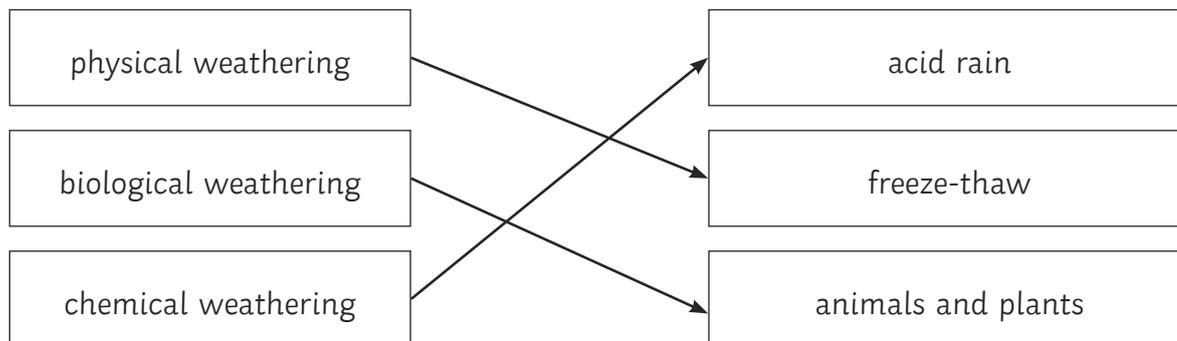
Respiration:

Combustion:

The Earth Test Yourself 3 Answers

Match and Draw

Match the type of weathering with its example AND write a sentence to explain how each method erodes rocks.



Acid rain: rain which is slightly acidic falls on rocks like limestone and a chemical reaction occurs that results in some of the rock being washed away.

Freeze thaw: water seeps into small cracks in the rocks. When the water freezes, it expands and the crack becomes bigger until part of the rock breaks off.

Animals and plants: animals burrow into the cracks found in rocks, making them bigger. Roots of plants can also make their way into cracks, pushing the cracks open as they grow.

The Carbon Cycle

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- Carbon dioxide is removed from the atmosphere by plants. Name the process by which plants remove this carbon dioxide. **Photosynthesis**
- Name 2 ways that carbon dioxide is returned to the atmosphere:
 1. **Respiration**
 2. **Combustion**
- Write the equations for:

Photosynthesis: **carbon dioxide + water → glucose + oxygen**

Respiration: **glucose + oxygen → carbon dioxide + water + energy**

Combustion: **fuel + oxygen → carbon dioxide + water**