

# Physical or chemical weathering?

Name \_\_\_\_\_

Class \_\_\_\_\_

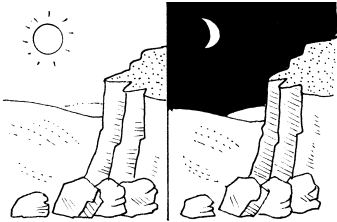
When **chemical weathering** happens, a rock reacts with a chemical such as acid in rainwater. A new substance is made.

When **physical weathering** happens, no new substances are made. The rocks do not change into a new substance, but they are broken into smaller pieces. The diagrams below show some examples of the weathering of rocks.

**Biological weathering** is when living things cause rocks to break apart or wear away.



For each diagram, decide what is causing the weathering, and if it is an example of chemical, biological or physical weathering. Fill in the gaps in the sentences using words from the box. You may need some words more than once.

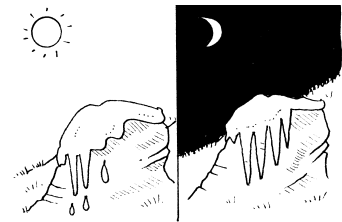


1 \_\_\_\_\_ changes can cause \_\_\_\_\_ weathering. The rock \_\_\_\_\_ during the day when it is hot and contracts when it is \_\_\_\_\_ at night.

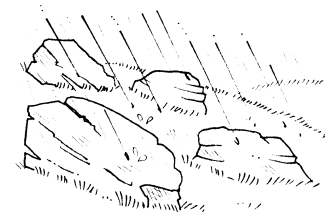


2 \_\_\_\_\_ roots can cause \_\_\_\_\_ weathering. The plant \_\_\_\_\_ grow into small \_\_\_\_\_ in the rocks, and push the sides of the cracks apart when they \_\_\_\_\_ bigger.

3 \_\_\_\_\_-\_\_\_\_\_ action can cause \_\_\_\_\_ weathering. Water in the rock expands when it \_\_\_\_\_ and makes the crack bigger.



4 \_\_\_\_\_ can cause \_\_\_\_\_ weathering. The \_\_\_\_\_ in the rain dissolves parts of the rock. This process is speeded up if the rain contains a lot of acid. Rain like this is called \_\_\_\_\_ and can be caused by burning \_\_\_\_\_ fuels.



acid	biological	chemical	cold	cracks	expands
fossil	freezes	freeze-thaw	grow	physical	plant
	rain	roots	temperature	water	