

WEATHERING

Mechanical & Chemical

VOCABULARY:

- weathering- the process by which natural forces break down rocks.
- mechanical weathering- the breaking up of rocks by physical forces (ice, roots, abrasion)
- exfoliation- a process in which layers or sheets of rock gradually break off
- abrasion- the process of wearing down by friction, the rubbing of one object or surface against another.
- chemical weathering-the breakdown of rocks by chemical reactions that change the rocks' makeup, or composition.



Weathering breaks rocks into smaller pieces.

THINK: Imagine the tiniest rock you have ever found. How did it get so small? It didn't start out that way! What forces created this rock?

- 2 types of weathering: **Mechanical** and **Chemical**

Mechanical weathering produces physical changes in rocks.

- In the natural process of **Mechanical Weathering**, physical forces split rocks apart but do not change their **composition** (like smashing a walnut).
- **Ice Wedging**, **Pressure Release**, **Plant Root Growth**, and **Abrasion** can all cause mechanical weathering.

Type of Mechanical Weathering	Explanations	Illustrations
<u>Ice Wedging</u>	Water freezes in the cracks of rocks and expands. The force of expansion is strong enough to split the rocks apart. This process can break up huge boulders. It is common in our area.	
<u>Pressure release</u>	Earth's forces can push rock that formed deep underground up to the surface. The pressure inside the rock is still high, and the pressure on the surface is released. This causes the rock to expand and crack. This leads to exfoliation.	

Study Guide Weathering Answers

Charles C. Plummer,David McGahey

Study Guide Weathering Answers:

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