

CHAPTER 14 Weathering and Erosion

SECTION

1

Weathering Processes

KEY IDEAS


As you read this section, keep these questions in mind:

- What are three agents of mechanical weathering?
- How do mechanical and chemical weathering processes compare?
- What are four chemical reactions that decompose rock?

What Is Weathering?

Most rocks deep in Earth's crust form under conditions of high temperatures and pressure. Over time, movements of tectonic plates lift these rocks to Earth's surface. The rocks at Earth's surface experience different conditions. Surface rocks are exposed to much lower temperatures and pressures. Surface rocks are also exposed to the gases and water in Earth's atmosphere.

Conditions on Earth's surface cause rocks to change. The rocks may break down physically or change chemically. Such change in rocks at Earth's surface is called **weathering**. There are two main types of weathering:

- mechanical weathering
- chemical weathering 

What Is Mechanical Weathering?

In the process of **mechanical weathering**, rocks break down by physical means. Mechanical weathering changes the physical appearance of a rock. However, it does not change the chemical composition of the rock.

Common *agents*, or causes, of mechanical weathering are ice, plants and animals, gravity, running water, and wind. These agents produce different forms of mechanical weathering, such as

- exfoliation
- ice wedging
- abrasion
- cracks and scrapes

READING TOOLBOX

Identify Examples As you read, list examples of weathering processes. Look for signal words that introduce examples. Signal words may include the following:

- for example
- such as

 READING CHECK

1. Identify What are the two main types of weathering?

Critical Thinking

2. Make Connections Name one agent of weathering that would not be common in a desert. Explain your answer.

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