

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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Holt McDougal Earth Science: Long-Term Projects with Answer Key, 2010 **Earth Science Power Pack** Edward J. Denecke (Jr), 2001-05-20 **Holt Science and Technology** Holt Rinehart & Winston, 2000-04 *Let's Review Earth Science* Edward J. Denecke, 2012-02-01 Barron's Let's Review Series titles are classroom textbook supplements that help prepare high school students who are studying for New York State Regents exams This useful supplement to high school Earth Science textbooks features A comprehensive topic review covering fundamentals of astronomy geology and meteorology Updated for use with 2010 Edition Reference Tables for Physical Setting Earth Science Updated with more than 1 100 practice questions with answers covering all exam topics drawn from recent Regents exams One recent full length Regents exams with answers

California Holt Earth Science Standards Review Workbook Hrw, Holt Rinehart & Winston, 2007-01-01 **Holt California Physical Science**, 2007* **UPCO's Physical Setting - EARTH SCIENCE** Robert B. Sigda, 2010-09 Earth Science Review Book is user friendly for both the teacher and the student Since the content is aligned with the New York State Core Curriculum for Physical Setting Earth Science a teacher can feel confident that all the required topics are sufficiently developed The suggested outline of units moves from the concrete material to the more abstract subjects such as meteorology and astronomy Throughout the book there is ample opportunity for review of basic skills and ways to tie in the various units For example isolines are discussed early in the year and then revisited later in the weather topics The student has the opportunity to use the book as both a reference and a workbook The extensive number of constructed response items as well as multiple choice questions found interspersed within the topics give ample practice The multiple Regents Exams found at the back of the book can be used both at the end of the course for review and whenever appropriate throughout the year **Brief Review in Earth Science** Jeffrey C. Callister, 2003-06 Brief Review in Earth Science Jeffrey C.

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