

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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Albert A Gayle



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Holt Science and Technology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-05 *Holt Earth Science* Holt, Rinehart and Winston Staff, 1994-01-01 **Holt McDougal Earth Science: Review Guide**, 2010 Holt McDougal Earth Science: Long-Term Projects with Answer Key, 2010 **Section Reviews Modern Earth Science** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-01-01 *Holt Science and Technology* Holt Rinehart & Winston, 2000-04 **Holt McDougal Earth Science: Interactive Reader and Study Guide Answer Key**, 2010 **Holt McDougal Earth Science: Guia de Repaso - Review Guide**, 2010 Holt Earth Science Holt, Rinehart and Winston Staff, 1994-01-01 *Holt Science and Technology* Holt Rinehart & Winston, 2004-02 **Let's Review: Earth Science** Edward J. Denecke, 2009-09-01 Designed especially to help prepare students taking the New York State Regents Examination this book makes a valuable supplementary text for high school level Earth Science classes throughout the country Organized into three main study units astronomy meteorology and geology this book provides extensive subject review material with updated questions and answers It also includes one recently given full length Regents Exam in Earth Science Holt Science and Technology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Not Available*, **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 *Earth Science Power Pack* Edward J. Denecke (Jr), 2001-05-20 **Science Spectrum** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 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 **California Holt Earth Science Standards Review Workbook** Hrw, Holt Rinehart & Winston, 2007-01-01 *Brief*

Review in Earth Science Jeffrey C. Callister, 2003-06

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