

## Earth Science: Chapter 3, Lesson 1

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Section: \_\_\_\_\_

1. **State** What is the result of a rock undergoing physical and chemical weathering?

2. **Recognize** Why is weathering slow in cold, dry places?

3. **STEM Connection Math Skills** A block of stone measures  $15\text{ cm} \times 15\text{ cm} \times 20\text{ cm}$ . What is the total surface area of the stone? Hint: A block has six sides.

\_\_\_\_\_ 4. **Analyze** Which is true of oxidation?

- A. It is a physical process.
- B. No change occurs in the makeup of rock.
- C. Rocks weather at different rates.
- D. Water freezes in cracks in rock.

\_\_\_\_\_ 5. Examine the table. Students collected and recorded the pH of four samples of rainwater in the table. Which sample is the most acidic?

Table 1	
Rain sample	pH
1	5.3
2	4.7
3	5.5
4	4.3

- A. 1
- B. 1
- C. 3
- D. 4

\_\_\_\_\_ 6. Which is NOT a cause of physical weathering?

- A. A mole burrows underground.
- B. A plant grows into a crack in a rock.
- C. Rainwater dissolves a stone statue.
- D. Waves break along a shoreline.