Name

Chapter 5 Weathering, Soil, and Mass Movements

Section 5.3 Mass Movements

This section describes situations in which large amounts of soil are moved naturally.

Reading Strategy

Previewing As you read the section, rewrite the green topic headings as *what* questions. Then write an answer to each question. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Question	Answer
a.	b.
С.	d.

1. The transfer of rock and soil downslope due to ________ is called mass movement.

Triggers of Mass Movements

2. So What are the factors that commonly trigger mass movements?

- **3.** Circle the letter of each sentence that is true about water triggering mass movements.
 - a. Heavy rains and rapid melting of snow can trigger mass movements by saturating surface materials with water.
 - b. When the pores in sediment become filled with water, the particles slide past one another more easily.
 - c. If there is sufficient water, sand grains will ooze downhill.
 - d. Saturation of the ground with water makes slopes more susceptible to the force of gravity.
- **4.** Is the following sentence true or false? If the steepness of a slope exceeds the stable angle, mass movements become more likely.
- 5. What are three possible causes of oversteepened slopes?

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Types of Mass Movements

Match each description with its term.

Description

- **6.** a flow that moves relatively slowly—from about a millimeter per day to several meters per day
 - ___ 7. the downward movement of a block of material along a curved surface
 - 8. a quickly moving mass of material that contains large amounts of water

- Term
- a. rockfall
 - b. rockslide

- c. slump
- d. mudflow
- e. earthflow
- 9. when rock or rock fragments fall freely through the air
- ___ 10. slides that include bedrock that move suddenly along a flat, inclined surface
- **11.** Identify each of the forms of mass wasting illustrated in the figures below by writing the name of the process on the lines provided. Choose *earthflow*, *slump*, or *rockslide*.



Class

Chapter 5 Weathering, Soil, and Mass Movements

WordWise

Test your knowledge of vocabulary terms from Chapter 5 by completing this crossword puzzle.

Clues across:

- 1. the part of the regolith that supports the growth of plants
- 6. soil usually found in drier western United States in areas that have grasses and brush vegetation
- 8. a layer of rock and mineral fragments produced by weathering
- 9. occurs when rocks or rock fragments fall freely through the air



5. flows that move relatively slowly

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