

# Chapter 12 Worksheet

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

## *12.1: Weathering Processes*

### **True or False:**

- \_\_\_\_\_ 1. Rainwater is naturally acidic.
- \_\_\_\_\_ 2. Abrasion is a chemical process.
- \_\_\_\_\_ 3. Plants can act as both mechanical and chemical weathering agents.
- \_\_\_\_\_ 4. Chemical weathering breaks down a rock without changing the composition of the rock.

### **Multiple Choice:**

- \_\_\_\_\_ 5. What type of weathering causes underground caverns to form?
  - a. exfoliation
  - b. abrasion
  - c. carbonation
  - d. oxidation
- \_\_\_\_\_ 6. The rounding of rock due to collision with other rocks is called:
  - a. abrasion
  - b. gullying
  - c. exfoliation
  - d. creep
- \_\_\_\_\_ 7. Lichens and mosses erode rocks by producing:
  - a. limestone
  - b. oxides
  - c. bases
  - d. acids

## *12.2: Rates of Weathering and 12.3: Weathering and Soil*

### **Multiple Choice:**

- \_\_\_\_\_ 8. Which of the following best accounts for the damage to Cleopatra's Needle after being moved to New York City?
  - a. carbonation
  - b. climate differences
  - c. pollution
  - d. both b and c
- \_\_\_\_\_ 9. Weathering is generally slow in climates with extended period of:
  - a. acid rain
  - b. cold
  - c. high winds
  - d. humidity

### **Fill-In-The-Blank:**

- 10. The four main factors that determine the rate of weathering are climate, composition, exposure, and \_\_\_\_\_.
- 11. Fractures and joints allow weathering to occur more rapidly by increasing a rock's \_\_\_\_\_ (*two words*).
- 12. Water that penetrates rock and then freezes causes weathering by the process of \_\_\_\_\_ (*two words*).

13. Rocks containing calcite are most easily weathered by the chemical process of \_\_\_\_\_.

14. A dark, organic material in the soil produced by the decaying remains of plants and animals is called \_\_\_\_\_.

15. The layers of a soil profile are called \_\_\_\_\_.

#### *12.4: Erosion*

##### **True or False:**

- \_\_\_\_\_ 16. Gullying often occurs when a slope is plowed for farming.
- \_\_\_\_\_ 17. Stripcropping generally accelerates erosion.
- \_\_\_\_\_ 18. Chemical and mechanical are two types of erosion.
- \_\_\_\_\_ 19. Rockfalls and landslides are examples of mass movements.
- \_\_\_\_\_ 20. Gravity is an important agent of erosion.

##### **Multiple Choice:**

- \_\_\_\_\_ 21. A pile of rocks that accumulates at the base of a slope is called:

- a. humus
- b. slump
- c. regolith
- d. talus

- \_\_\_\_\_ 22. A mass movement in which the upper soil layers thaw and flow is called:

- a. slump
- b. solifluction
- c. creep
- d. mudflow

- \_\_\_\_\_ 23. Small, table-like areas that once formed a broad, flat landform are called:

- a. mesas
- b. plateaus
- c. peneplains
- d. terraces