

Name _____

Influences on Weathering Practice Worksheet

1. Since water participates in both mechanical and chemical weathering, more water strongly increases weathering.

- a. TRUE
- b. FALSE

2. Select all possible answers:

Which of the following are ways plants can increase the rate of weathering?

- a. Plant debris can break down in water and increase its acidity, allowing the water to dissolve more minerals.
- b. Plant roots can grow into minerals and break them apart.
- c. Plants can secrete acids into the soil that increases the rate of weathering.
- d. Plants roots can hold soil together, preventing it from being washed away.

3. The rate and intensity of weathering depends on _____.

- a. The climate of the region
- b. The rocks and materials being weathered
- c. Both A and B
- d. None of the above

4. Why do warmer climates increase the rate of chemical weathering?

- a. Warmer water is more acidic than cold water and can dissolve more types of minerals.
- b. Climate has no effect on the rate of chemical weathering.
- c. Higher temperatures increase the rate of chemical reactions.
- d. Warmer climates tend to get more precipitation.

5. Different climatic conditions cause the same materials to weather with different intensities.

- a. TRUE
- b. FALSE

6. Which of the following are more vulnerable to weathering?

- a. Limestone
- b. Granite
- c. Sandstone
- d. Both A and C

7. Climate is determined by

- a. Temperature
- b. Precipitation
- c. Temperature precipitation
- d. None of these

8. Igneous rocks weather faster than most other rocks because they formed in conditions that are the most different from surface conditions.

- a. TRUE
- b. FALSE

9. Which of the following is an example of physical weathering?

- a. A waterfall slowly wearing away the rocks it falls on.
- b. Acid rain dissolving a marble statue.
- c. Minerals dissolving into rainwater.
- d. Bacteria in soil converting minerals to organic compounds that feed plants.

10. Rocks that resist weathering remain at the surface and form ridges or hills.

- a. TRUE
- b. FALSE

