

Name _____

Mechanical Weathering Practice Worksheet

1. When water freezes in cracks of rocks and causes the rocks to break apart, the process is known as abrasion.
 - a. TRUE
 - b. FALSE

2. The chemical composition of a substance remains the same during the process of mechanical weathering.
 - a. TRUE
 - b. FALSE

3. Mechanical weathering produces clay minerals.
 - a. TRUE
 - b. FALSE

4. Mechanical weathering breaks down existing rocks by
 - a. Incorporating them into new rocks
 - b. Changing them physically, but not chemically
 - c. Changing them chemically and physically
 - d. Changing them chemically, but not physically

5. Mechanical weathering is a _____.
a. Physical process
b. Mathematical process
c. Biological process
d. Chemical process

6. Ice wedging occurs most in _____.
a. High mountains
b. Boreal forests
c. Equatorial areas
d. Tundra

7. Frost wedging alters the internal structure of minerals and causes chemical weathering of rocks.
a. TRUE
b. FALSE

8. Put the steps of ice wedging in order.

- I. water freezes
- II. Water seeps into cracks
- III. Frozen water expands the rock
- IV. Water thaws and over time the rock breaks into pieces.

- a. II, III, I, IV
- b. IV, II, I, III
- c. II, I, III, IV
- d. IV, III, II, I

9. Abrasion and ice wedging are types of chemical weathering.

- a. TRUE
- b. FALSE

10. Heat, temperature and pressure all affect the rate and significance of mechanical weathering.

- a. TRUE
- b. FALSE