

Weathering, Erosion, Deposition Worksheet

Matching: Put the letter of the correct term in the blank.

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| A. roots | D. ice wedging | G. tropical |
| B. chemical | E. oxidation | H. mechanical |
| C. carbonic acid | F. desert | |

- _____ 1. The type of weathering that is the physical break down of rocks.
- _____ 2. When water enters cracks in rocks and freezes, it expands and breaks the rock apart.
- _____ 3. The part of plants that seek water and nutrients, often breaking rock apart
- _____ 4. The type of weathering that occurs when chemicals react with minerals.
- _____ 5. An acid that forms from the result of water mixing with carbon dioxide gas in the air or soil.
- _____ 6. The process when water and oxygen combine to form rust
- _____ 7. The type of climate where chemical weathering will occur more quickly due to the warm, moist environment
- _____ 8. The type of climate where chemical weathering will occur more slowly due to lack of moisture.

Identify each statement below as an example of mechanical or chemical weathering. Write M for mechanical or C for chemical in the blank.

- _____ 9. The wedging of tree roots along sidewalks, breaking apart rocks and cement
- _____ 10. Limestone reacting with carbonic acid
- _____ 11. The oxidation of minerals that contain iron
- _____ 12. Animals burrowing and digging in rock
- _____ 13. Repeated freezing and thawing of water that cracks rock
- _____ 14. The action of water, salt, and air on car fenders, creating rust
- _____ 15. The formation of potholes in streets during severe winters
- _____ 16. Halite (a mineral in rocks) reacting in water
- _____ 17. Substances from decaying plants reacting with minerals in rocks

Short Answer:

18. Explain the difference between weathering, erosion, and deposition.

Fill in the blank:

- _____ 19. This type of erosion picks up materials and transports them in the air, often causing the abrasion of surfaces.
- _____ 20. This type of erosion includes slumps, creeps, rockfalls, and mudflows.
- _____ 21. When water erodes an area, is more damage done when the water moves slowly or when it moves fast?
- _____ 22. What types of objects might one see as a result of wave deposition?
- _____ 23. What type of deposition would create sand dunes?
- _____ 24. What is the area called when water deposits sediments at the mouth of a river?
- _____ 25. What type of erosion and deposition is not a major force in Texas?