



Weathering

20 Questions

NAME : _____

CLASS : _____

DATE : _____

1. The natural chemical or physical processes that breaks down rock on Earth's surface.

- | | |
|--|---|
| <input type="checkbox"/> a) weathering | <input type="checkbox"/> b) erosion |
| <input type="checkbox"/> c) deposition | <input type="checkbox"/> d) jackhammering |

2. The process by which water, ice, wind or gravity moves weathered rock and soil from one place to another.

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> a) weathering | <input type="checkbox"/> b) erosion |
| <input type="checkbox"/> c) deposition | <input type="checkbox"/> d) dumptruck |

3. This type of weathering occurs when rock is physically broken down into smaller pieces of rock.

- | | |
|---|---|
| <input type="checkbox"/> a) mechanical weathering | <input type="checkbox"/> b) chemical weathering |
| <input type="checkbox"/> c) erosion weathering | <input type="checkbox"/> d) deposition |

4. This type of weathering occurs when rocks weaken then break down due to chemical changes in the composition of the rock.

- | | |
|---|---|
| <input type="checkbox"/> a) mechanical weathering | <input type="checkbox"/> b) chemical weathering |
| <input type="checkbox"/> c) erosion weathering | <input type="checkbox"/> d) deposition |

5.



These rocks were made smooth by wind blowing smaller rock particles across their surface. This is an example of:

- ☐ a) ice wedging
- ☐ b) chemical weathering
- ☐ c) acid rain
- ☐ d) abrasion

6.



These rocks were broken apart from the continuous freeze/thaw of water in the cracks of the rocks. This is an example of:

- ☐ a) ice wedging
- ☐ b) acid rain
- ☐ c) permeability
- ☐ d) abrasion

7.



This rock may chemically weather easily because it has many spaces or holes in it that allow water to seep through it, meaning it is:

- ☐ a) permeable
- ☐ b) abrasive
- ☐ c) erosion
- ☐ d) unchangeable

8.



These gravestones have slowly broken down and turned a blackish color due to the action of:

- ☐ a) ice wedging
- ☐ b) abrasion
- ☐ c) acid rain
- ☐ d) mechanical weathering

9. How might a weathered mountain appear different than an unweathered mountain?

- ☐ a) Weathered mountain would be taller. ☐ b) Weathered mountain would be rounder and less jagged.
- ☐ c) Weathered mountain would be more jagged and less rounded. ☐ d) Weathered mountain would have no trees.

10. How is mechanical weathering different from chemical weathering?

- ☐ a) Chemical weathering happens over much shorter time frame than mechanical weathering. ☐ b) Chemical weathering changes the chemical composition of rocks; mechanical weathering does not.
- ☐ c) Chemical weathering occurs only in tropical climates; mechanical weathering occurs only in cool climates. ☐ d) Chemical weathering occurs only in the mountains; mechanical weathering occurs only on flat land.

11. Weeds growing into the cracks in a sidewalk and the sidewalk begins to crumble is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

12. Potholes forming in the road after a cold winter is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

13. A metal statue slowly turning green after years of being outside is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

14. Rocks along a riverbed that are smoothed from continuously moving water and sediment rubbing against them is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

15. A piece of sandstone changing color (from brown to rusty red) from exposure to water and air is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

16. The formation of stalactites and stalagmites in a cave as water mixed with carbon dioxide creates carbonic acid, which dissolves away the limestone, is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

17. The formation of large cracks in the face of a mountain from ice wedging is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

18. Acid rain wearing away the face of a marble gravestone or statue is an example of?

- ☐ a) mechanical weathering ☐ b) chemical weathering

19. Exposure to rain and oxygen causes the metal minerals in rocks to rust and fall apart. This is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

20. Lichens (small green plants) growing on a large boulder release enzymes and other acids that slowly break the rock apart. This is an example of:

- ☐ a) mechanical weathering ☐ b) chemical weathering

Answer Key

1. a
2. b
3. a
4. b
5. d

6. a
7. a
8. c
9. b
10. b

11. a
12. a
13. b
14. a
15. b

16. b
17. a
18. b
19. b
20. b