

Chapter 14 Reading Assignment Answers

1. **weathering** – the natural process by which atmospheric and environmental agents, such as wind, rain and temperature changes, disintegrates and decomposes rock
2. mechanical and chemical
3. mechanical does not change the chemical composition of rock like chemical weathering does
4. no, mechanical weathering just changes the size and shape of the rock
5. ice wedging and abrasion
6. water fills in openings of rocks, freezes and the expansion of the frozen water breaks the rock into smaller pieces
7. gravity, running water, wind
8. the process by which a metallic element combines with oxygen
9. the combining of oxygen with iron in iron rich soils
10. **hydrolysis** – a chemical reaction between water and another substance to form two or more substances
leaching – carrying of dissolved minerals to lower layers of rock by water
11. carbonic acid H_2CO_3
12. precipitation that contains a high concentration of acids, often because of the pollution of the atmosphere
13. air pollution
14. rock composition, climate, topography, surface area
15. **differential weathering** – the process by which softer, less weather resistant rocks wear away at a faster rate than harder, more weather resistant rocks
16. calcite, it is a softer mineral with weaker intermolecular interactions than quartz
17. **surface area** – the part of the rock that is exposed to air, water and other agents of weathering
18. an increase in surface area of rock will expose more of the rock's surface to agents of weathering, therefore, increasing the rate of weathering
19. fractures or joints
20. fractures and joints increase the rock's surface area. These weak areas also allow for chemical weathering by allowing water to move in may even allow for ice wedging in certain climatic conditions
21. the average weather conditions in an area over a long period of time
22. a warm, moist climate (tropical)
23. a cold, dry climate (arctic)
24. **topography** – the elevation and slope of the land surface
25. ice wedging, usually occurs at high elevations because of low temperatures
abrasion, occurs on steep slopes and the rock is carried away by gravity, landslides or mudslides
26. bat guano can cause chemical weathering by reaction with rocks. Bat guano can attract insects that burrow through soil causing mechanical weathering
27. **regolith** – layer of weathered rock fragments that covers much of Earth's surface
28. **bedrock** – solid, unweathered rock that lies beneath the regolith
29. located at the lower regions of the regolith and are not exposed to weathering because they are covered by overlying regolith
30. **soil** – a loose mixture of rock fragments and organic material that can support the growth of vegetation
31. parent rock – the original rock from which the soil was weathered
32. residual soil is soil that directly over the parent rock while transported soil is soil that is transported away from the parent rock
33. feldspars and aluminum
34. large amounts of quartz
35. black soil has a high concentration of organic material while red soil is formed from the oxidation of iron
36. clay – particles are less than 0.004mm in diameter
silt – particles are from 0.004mm to 0.06mm in diameter
sand – particles are from 0.06mm to 2 mm in diameter
37. soil profile
38. horizon

Chapter 14 D Reading Assignment Answers

KJ Lindholm-Leary



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