Name: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_Chapter 2 Test Study Guide **ANSWERS**

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| **Lesson 1** |
| 1. What is mechanical weathering?
2. Give an example.
 | 1. Physical processes naturally break down rocks into smaller pieces.
2. Forest fires, ice wedging, abrasion, plants, animals
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| 1. What is chemical weathering?
2. Give an example.
 | 1. Changes a material that are part of a rock into new materials.
2. Water, acid rain, oxidation
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| 1. Chemical weathering is more rapid in what type of climate?
 | 5. Warm, wet climates |
| 1. What causes abrasion?
 | 6. glaciers, rock fragments tumbling in a stream, wind and waves |
| 7. Why does weathering have a greater effect on soil with clay particles vs. soil with sand particles? | 7. Clay particles are smaller than sand. Clay particles have more surface area than sand. |
| 8. What is oxidation?9. What is a positive result of oxidation? | 8. Chemical weathering – combines elements of oxygen and other elements/molecules. (iron)9. rust |
| 10. What type of weathering occurs more rapidly in warm, moist climates? | 10. chemical weathering |
| **Lesson 2** |
| 11. Define decomposition | 11. Once living material is broken down into dark colored organic material. |
| 12. Explain what parent material is. | 12. The starting material of soil. |
| 13. As rain fills the cracks and pores of the parent material, what will be the outcome? | 13. Soil will begin to form. |
| 14. Give two examples of biota.15. How does biota effect soil formation? | 14. Worms, bacteria, moles..etc. (living organisms in soil)15. Bacteria aides in decomposition, worms dig holes for water to travel thorugh…. |
| 16. What are the layers in soil referred to? | 16. Soil Horizons |
| 17. What are the names of the soil horizons, and what are the characteristics of the horizons? | O-Horizon = very top organic layerA- Horizon = topsoil, dark, organic matter, plant rootsB-Horizon = clay and other materials carried down pores/cracks from the A-horizonC-Horizon = weathered parent material, solid rock or sedimentsR-Horizon = bedrock |
| Write a description for each soil property:Texture- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Structure- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Consistency- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Infiltration- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Fertility- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Soil moisture- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_pH- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Texture-ranges in size (boulder 🡪 very fine clayStructure- shape of soil clumps/how they are held togetherConsistency- hardness/softness of the soilInfiltration- how fast water enters the soilFertility- the ability of the soil to support plant growthSoil moisture- the amount of water in the soil porespH- acidity of the soil |