

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Class: \_\_\_\_\_ Teacher: \_\_\_\_\_

### Residual versus Transported Soil - Earth Science Assignment

**Directions:** Print this assignment. Complete this entire exercise following the directions for each section.

**Part One:** Define the following terms: (Need assistance? **Soil Geography**.)

**Residual Soil:**

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**Transported Soil:**

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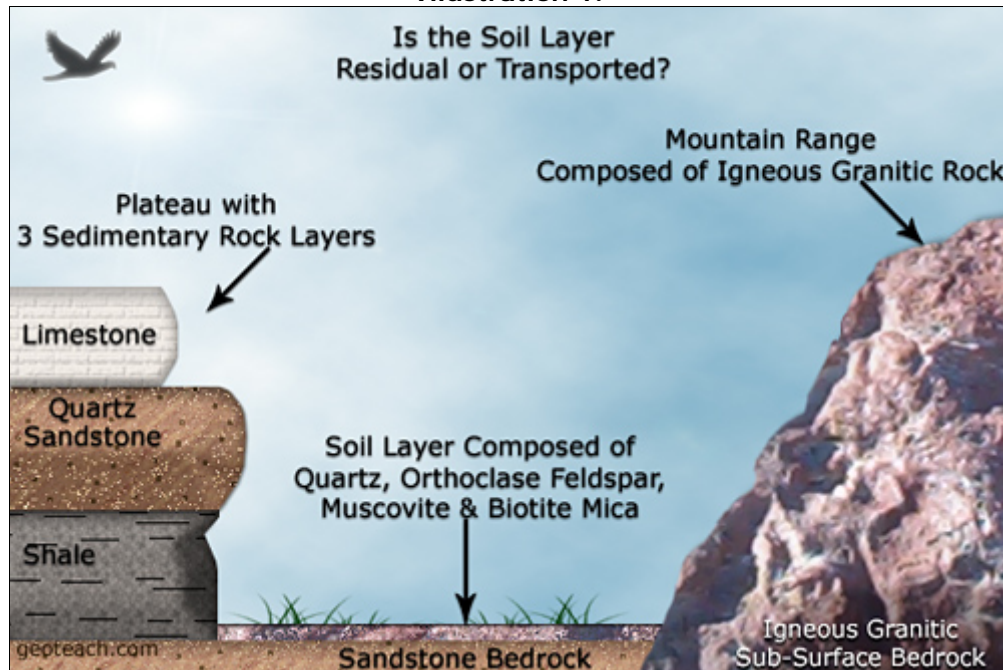
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**Part Two:** Look at the following 2 illustrations which show a cross-section of a landscape region. Labels indicate the rock types as well as the mineral composition of the soil layer found in the areas.

In complete sentences, answer the questions that follow each illustration, basing your responses on the illustrations and on your knowledge of Earth Science.

If you need assistance with the mineral composition of the rocks in the pictures, consult the following rock charts: **Igneous, Sedimentary and Metamorphic Rocks**. (See pages 2 and 3.) This is a .PDF file that will open in a new browser window.

**Illustration 1:**



1. Is the soil layer in *Illustration 1* **Residual Soil** or **Transported Soil**?

Answer: \_\_\_\_\_  
\_\_\_\_\_

2. Give a reason for your answer to number 1.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

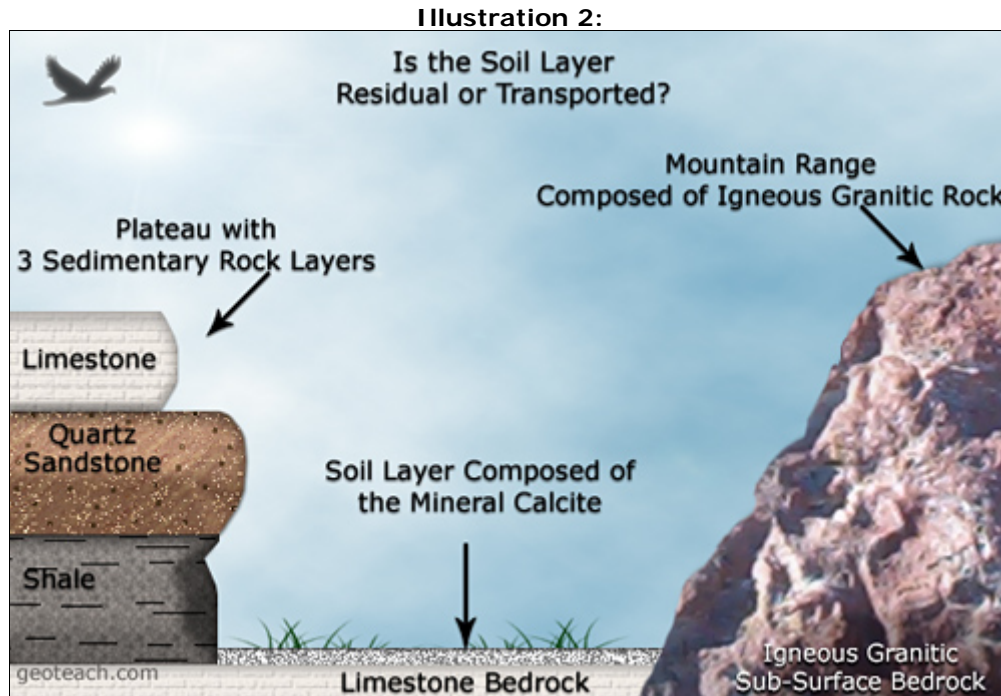
3. Did the soil layer originate from the Igneous Granitic Bedrock or from the Sedimentary Rock layers?

Answer: \_\_\_\_\_  
\_\_\_\_\_

4. Explain your answer to number 3.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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5. Is the soil layer in *Illustration 2* **Residual Soil** or **Transported Soil**?

Answer: \_\_\_\_\_  
\_\_\_\_\_

6. Give a reason for your answer to number 5.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Did the soil layer originate from the Igneous Granitic Bedrock or from the Sedimentary Rock layers?

Answer: \_\_\_\_\_  
\_\_\_\_\_

8. Explain your answer to number 7.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. In addition to the mineral sediments present in the soil in both illustrations, what else is soil composed of that distinguishes it from rock fragments?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Concerning *Transported Soil*, what transporting agents are capable of moving sediments and soil from one location to another?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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