

Quarter 3 Scientist Challenge

Earth Study Guide

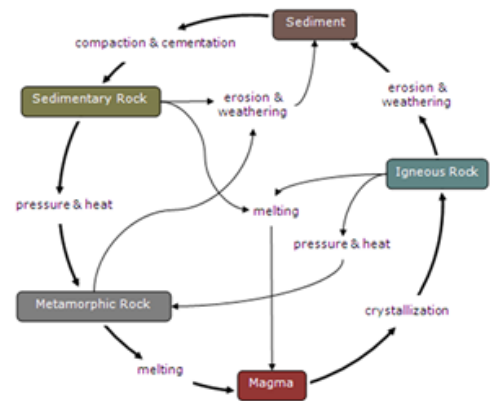
**Remember to continuously review The Scientific Method Study Guide
– You are responsible for ALL the material on it!*

Earth's Movement:

- Earth is constantly in motion. The two main types of motion that the Earth is constantly going through are **rotation** and **revolution**.
 - _____: when the Earth spins on its own axis, it rotates.
 - It takes 1 day, or 24 hours for the Earth to make one complete rotation on its axis.
 - Responsible for night and day
 - _____: when the Earth revolves, it moves in a circular pattern around the Sun
 - Revolution and tilt of Earth around Sun are responsible for the changing seasons.
 - Takes 1 year (or 365 ¼ days) to make one complete revolution around the **Sun**

The Rock Cycle:

- _____: a hot liquid made of melted minerals and compounds commonly found in rocks
- **Sedimentary Rocks:** formed from hardened layers of sand or eroded rock, materials from living organisms, and/or minerals from solutions such as sea water.
- _____ **Rocks:** form when hot, melted rock cools and hardens; very strong. (Ex. Granite)
- _____ **Rocks:** formed when any rock types are exposed to extreme heat and pressure; can be formed from previous sedimentary and igneous rocks; foliation: can see the layers in the rocks.



Soil:

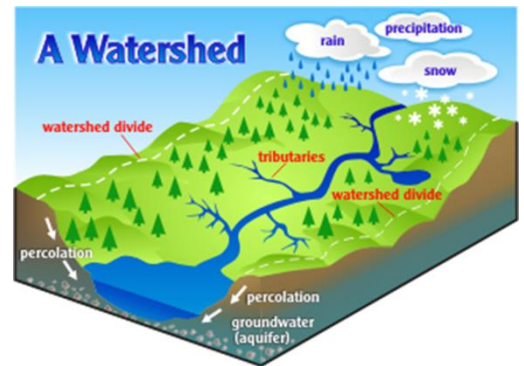
- Soil is made up partly of weathered rocks
 - Sand, silt, and clay
- Soil contains decaying plants, animals, and wastes
 - Humus: organic material broken down into a rich, dark substance; important for new plants to grow

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A Watershed:

- **Watershed:** a region of land where rain or snow drains downhill into a specified body of water, such as a river, lake, sea, ocean or wetland.



The Water Cycle:

- Water is constantly being recycled through the water cycle
- **Water Cycle:** describes the continuous movement of water on, above and below the surface of the Earth.
 - The amount of water on Earth remains _____, but it is continually changing forms

