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

**What are Rocks?**

* A \_\_\_\_\_\_\_\_\_\_\_\_\_ is a naturally occurring solid mixture of one or more \_\_\_\_\_\_\_\_\_\_\_\_, or organic matter.
* Rocks are classified by how they are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and texture.
* Rocks change over time through the \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Igneous Rocks**

* Igneous rock begins as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Magma can form:
  + - When rock is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
    - When \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is released.
    - When rock changes composition.
* Magma freezes between 700 °C and 1,250 °C
* Magma is a mixture of many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: light colored rocks that are rich in elements such as aluminum, potassium, silicon, and sodium
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: dark colored rocks that are rich in calcium, iron, and magnesium, poor in silicon
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: takes longer to cool, giving mineral crystals more time to grow
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: cools quickly with little to no crystals
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Igneous Rocks: \_\_\_\_\_\_\_\_\_\_\_\_\_ pushes into surrounding rock below the Earth’s surface
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rocks: forms when magma erupts onto the Earth’s surface (\_\_\_\_\_\_\_\_\_\_\_\_\_\_), cools quickly with very small or no crystals formed

**Sedimentary Rocks**

* Sedimentary rock is formed by\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Sediments are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from one place to another.
* Sediments are deposited in layers, with the \_\_\_\_\_\_\_\_\_\_\_\_ ones on the \_\_\_\_\_\_\_\_\_\_\_\_.
* The layers become compacted and cemented together.
* Sedimentary Rocks are formed at or near the Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* No \_\_\_\_\_\_\_\_\_\_\_\_ and pressure involved.

**Metamorphic Rocks**

* Meaning to change \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Changes with temperature and pressure, but remains solid.
* Usually takes place \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the Earth.