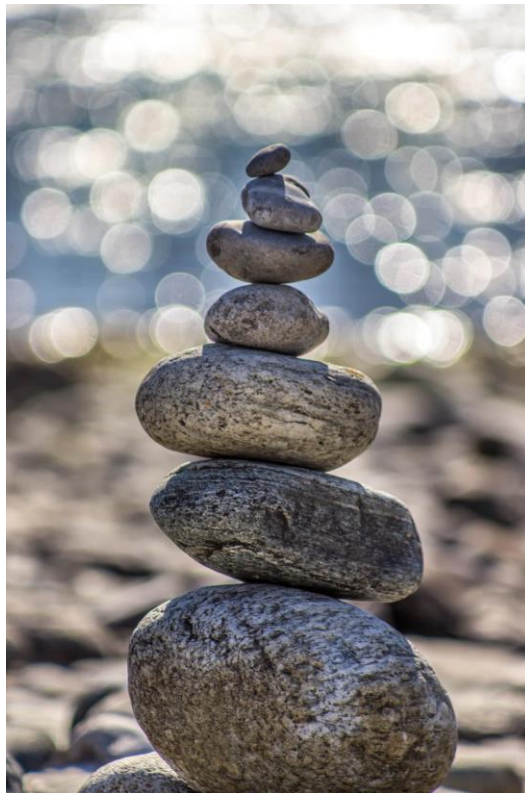




Geology: The Rock Cycle

Geology tells us that there are three different types of rocks that are connected through the rock cycle. They are classified by how they form: **Igneous, Sedimentary, and Metamorphic.**



Let's dig a little deeper into each type of rock!

Igneous Rock

-Forms from the cooling and solidification of magma

-Two types:

Intrusive, occurs when magma cools quickly

Extrusive, occurs when magma cools slowly

Examples:

- **Basalt**, found both on the moon and on the bottom of the ocean
- **Obsidian**, a glossy black volcanic rock that was used to make weapons and tools
- **Pumice**, formed from volcanic molten rock spray from volcanoes, lightweight and full of air pockets

Sedimentary Rock

Forms from the layering and cementation of sediment and particles

Examples:

- **Shale**, composed of thin layers, preserves fossils
- **Limestone**, contains skeletal fragments of marine organisms
- **Conglomerate**, a collection of pebbles that are cemented together

Metamorphic Rock

Forms when an igneous or sedimentary rock is transformed by extreme heat and pressure

Examples:

- **Gneiss**, contains light and dark bands, used to make stone buildings and flooring
- **Marble**, formed from limestone, used to make countertops
- **Slate**, easily split, made of clay, forms from shale

Check out this interactive rock cycle diagram to learn more about the relationship between the three types of rock:

<https://www.learner.org/wp-content/interactive/rockcycle/rockdiagram/>

Ready to test your knowledge? Take this fun quiz on the rock cycle from the Oxford University Museum of Natural History:

<https://www.oum.ox.ac.uk/thezone/rocks/games/index.htm>