

The Rock Cycle

A learn-along activity sheet to accompany the Gillespie Museum's ROCK CYCLE video/resources

The Rock Cycle is a geological concept that illustrates how the three main types of rock—sedimentary, metamorphic, & igneous—are related, by describing the conditions required to transform one type into another.

Use the word bank below, and the rock cycle diagram from page-2, to fill in the blanks in the following section on the **three rock types** and the **rock cycle**.

Sedimentary Rocks

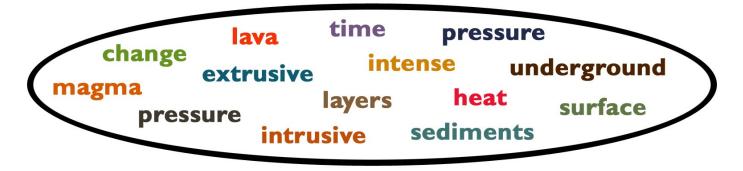
When rocks and minerals are worn and broken	down into small pieces by water, wind, or ice, the resulting
particles are called	The movement of these eroded particles to a new location
is called deposition , which often results in distin	nct of sediments building up in a
particular area. Sedimentary rocks form near th	e of the earth. It can take a lot
of, but eventually, if sedime	nts become compacted by from
the weight of water or overtopping earth, they c	an solidify into rocks like limestone, sandstone, and shale.

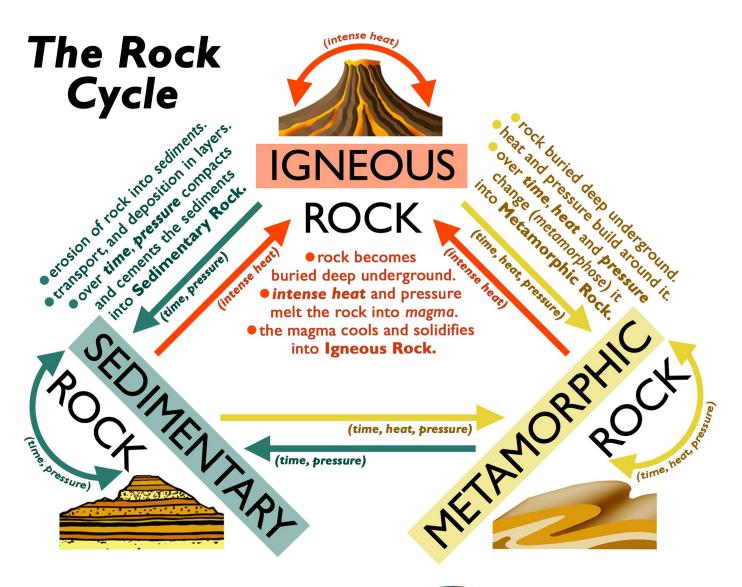
Metamorphic Rocks

When a rock becomes buried deep	by natural	geological processes, conditions
can arise that will	_ the rock's chemistry, and turn	it into a completely different kind
of rock. Over much time, if enough	and	build up around
the old rock, it will eventually transform	n into a new, metamorphic rock,	like marble, quartzite, or slate.

Igneous Rocks

When rocks underground become exposed to	the heat resulting from geological	
processes occurring in the earth's interior, they can actually melt. Melted, or molten rock located below		
the ground level is called	, but if melted rock becomes exposed on the earth's	
surface through volcanic activity it is called	When magma is able to cool and	
solidify underground, it forms	igneous rocks, like granite. When lava	
cools above ground,	igneous rocks, like basalt, obsidian, and pumice, are formed.	

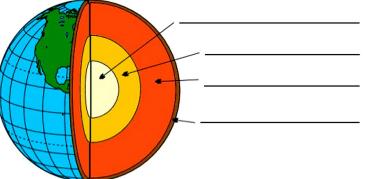




Complete this section about the **earth** and the **matter** which makes it up.

Correctly label the diagram with the layers of the earth (**crust, mantle, inner core, outer core**).

All three types of rock form in which earth layer?



Matter is anything that has mass (similar to weight) and takes up space (has volume).

What are the three states of matter? ______ Matter can change physically and chemically. Label the two definitions below as physical or chemical change. A reversible change, where appearance is altered, but the composition stays the same is ______. An irreversible change that alters the chemical makeup of a substance is ______. Is the melting of ice into liquid water a physical or chemical change? ______ What is involved in any change in matter?

