Glossary

Chemical Weathering - The breaking down of rocks by chemicals that react with their minerals

Classification - To group things together based on their observed similarities

Fossil - The preserved remains, or traces of remains, of ancient plants and animals, which is at least 10,000 years old.

Igneous rock - Rocks formed from magma or lava that has cooled and solidified.

Metamorphic rock - A type of rock formed when sedimentary or igneous rock is put under intense heat and pressure over a long period of time.

Minerals Natural - chemical substances that do not come from animals or plants. Minerals are the building blocks of rocks.

Physical Weathering - The breaking down of rocks because of physical processes such as temperature change and the effects of wind or water.

Porous - Something that allows water to pass through it.

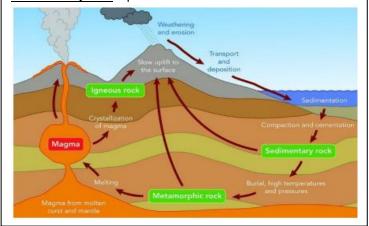
Rocks - Rocks are solid at room temperature. They are made of grains that fit together. Each grain in a piece of rock is made from minerals.

Sedimentary rock - Rocks that are formed when small fragments of rock and soil form layers and are compressed over a long period of time.

Soil - A mixture of organic matter, minerals, gases, liquids, and organisms.

Rocks and Soils

The Rock Cycle - explains how and where rocks are made



Igneous	Sedimentary	Metamorphic
Obsidian	Chalk	Marble (
Granite	Limestone	Gneiss
Pumice	Sandstone Sandstone	Quartzite Quartzite
Basalt	Shale	Slate Slate

Soil

- The combination of organic matter, minerals, gases, liquids, and organisms decide which of the three soil types it will be.
- Soil forms less than 10% of land
- Soil contains the water and nutrients needed for plants to grow.
- -Soil can be damaged by erosion and pollution.

How are Fossils Made?

- 1) An animal skeleton or trace is buried under small particles of rock, called sediment.
- 2) As more layers of sediment build up on top, the sediment around the object begins to compact and turn to rock.
- As water seeps through the sedimentary rock, any bones or organic matter are dissolved gradually.
- Minerals in the water replace the bone or organic matter, leaving a rock replica of the original. This is called a fossil.
- 5) Weathering and erosion may eventually expose the fossil







Types of Soil	Properties	
Sandy	A dry soil which drains easily and has lots of air in it.	
Clay	Sticky and does not have much air. It can hold a lot of water. It cracks when it dries.	
Loam	10-30% of clay and 25-50% sand. It holds a bit of water and has plenty of air in it. Loam soils also have a lot of (dead plant and animal matter). Most plants grow well in loam soils.	