

# Science • Rocks



## Crucial Knowledge

- Rocks are a natural occurring material.
- Different rocks have different properties and are used for different purposes.
- **Igneous rock** is formed from melted rock deep inside the Earth.
- **Sedimentary rock** is formed from layers of sand, older rock and organic matter.
- **Metamorphic rock** is formed from other rocks that are changed by heat and pressure underground.
- Soil is vital to all living things.
- Soils are made up of pieces ground down rock and organic matter.
- The property of the soil depends on the type of rock, size of rock pieces and the amount of organic matter.
- Fossils are formed in sedimentary rock and take millions of years to form.



## Key Vocabulary



**Soil:** mixture of plant matter and minerals in which plants grow, can be sandy, chalky or clay



**Peat:** decayed plant matter formed in bogs



**Permeable:** allows liquid to pass through.



**Impermeable:** does not allow liquid to pass through it.

**Particle:** a tiny portion of matter: the least possible amount

**Extinction:** when a group of living things stops having any living members

**Paleontologist:** A scientist who studies fossils.

**Fossil:** Remains or traces of plants and animals that lived long ago.

**Weathering:** the breaking down or dissolving of rocks

**Molten rock:** rock that is so hot it becomes a thick liquid



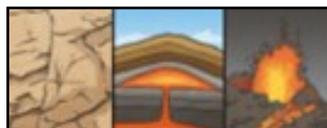
**Tectonic plates:** huge slabs of rock

**Crust:** the top most layer of the Earth, made of solid rock



## Diagrams / Images

### Types of Rock



**Igneous**



**Sedimentary**



**Metamorphic**

Natural Rocks		
Igneous	Sedimentary	Metamorphic
Obsidian	Chalk	Marble
Granite	Sandstone	Quartzite
Basalt	Limestone	Slate



## Important People



Volcanologists like **Katia Krafft** are scientists who study the formation and eruptions of volcanoes.



**Mary Anning** was a fossil collector and paleontologist.

## We Are Building Our Knowledge From

- Materials (Y2)

## This will help when we learn about

- Evolution and inheritance (Y6)
- Geography: Volcanoes (Y6)