



"Whatever you do, work at it with all your heart"

Colossians 3:23



Rocks and Soils

Year 3
Autumn 1

Key Knowledge:

To know that:

- ⇒ **Rock is a hard material made up of one or more minerals.**
- ⇒ **Soils are made from rocks and organic matter.**
- ⇒ **Fossils are formed when things that have lived are trapped within sedimentary rock.**

There are three types of rock—sedimentary, igneous and metamorphic. Sedimentary rock is easily worn away and often has fossils and layers. Metamorphic rock often has minerals and spots of colour.

Igneous rock often has visible crystals.

Sedimentary rock is formed from layers of igneous and metamorphic rock which are layered between organic matter over time.

Metamorphic rock is formed when igneous rocks are subjected to massive heat and pressure.

Igneous rock is formed when molten lava cools.

Fossils provide information about living things that inhabited the Earth millions of years ago.

Key Vocabulary:

Rock - a solid mass made up of minerals

Sedimentary - rocks formed by layers of sediment, e.g. chalk

Igneous - rocks formed by a volcano or other source of great heat

Metamorphic - rocks formed by heat and pressure e.g. marble

Eruption - the process of erupting

Molten lava - hot, melted rock that erupts from a volcano

Crystal - a glass-like material that is made when a substance changes from a liquid to a solid. Crystals are often found in igneous and metamorphic rocks

Soil - top layer of the Earth's surface

Fossil - the remains of a living animal or plant from a long time ago which are embedded in earth or rock

Organic matter - substance that has come from a recently living organism and is capable of decay

Layers - built up by things being laid down in sheets one after the other

Pressure - being pushed with force from multiple directions

Minerals - a solid, naturally occurring inorganic substance

Fair test - a scientific test to answer a question where one factor is changed and everything else stays the same

Natural Rocks			Human-Made Rocks
Igneous	Sedimentary	Metamorphic	
Obsidian	Chalk	Marble	Brick
			
Granite	Sandstone	Quartzite	Concrete
			
Basalt	Limestone	Slate	Coade Stone
			