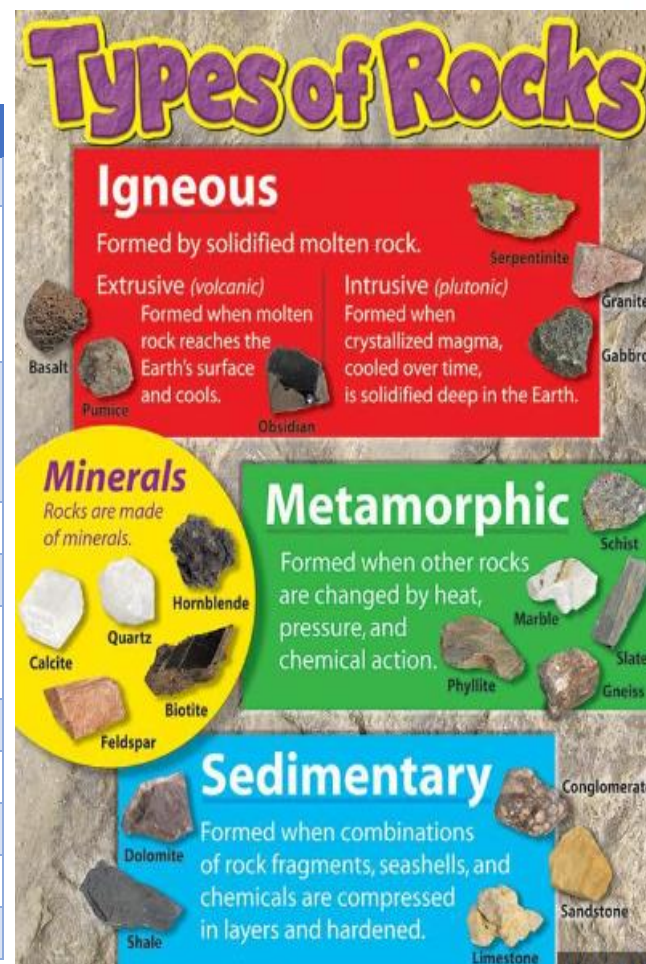




Faith Class Science Knowledge Organiser

Rocks and Fossils

<u>Key Vocabulary</u>	
Igneous rock	Rock that has been formed from magma or lava
Sedimentary rock	Rock that has been formed by layers of sediment being pressed down hard and sticking together. You can see the layers of sediment in the rock.
Metamorphic Rock	Rock that started out as igneous or sedimentary rock but changed due to being exposed to extreme heat or pressure
Magma	Molten rock that remains underground
Lava	Molten rock that comes out of the ground is called lava
Sediment	Natural solid material that is moved and dropped off in a new place by water or wind, e.g. sand
Permeable	Allows liquids to pass through it
Impermeable	Does not allow liquids to pass through it
Fossilisation	The process by which fossils are made
Palaeontology	The study of fossils
Erosion	When water, wind or ice wears away the land



Most rocks are formed naturally but some rocks have been developed by humans to fulfil a specific purpose.

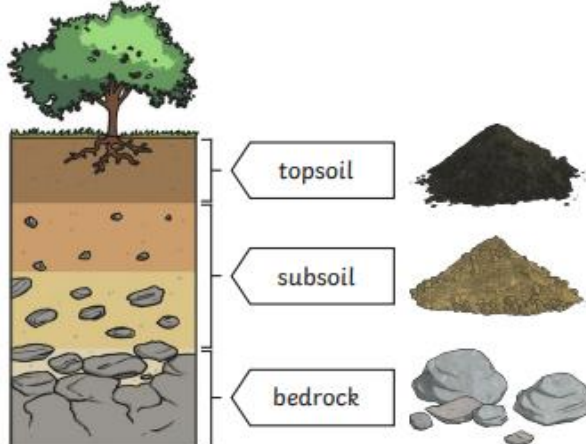
Soil is made up from rocks and other organic matter.

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

Soil

Soil is the uppermost layer of the Earth. It is a mixture of different things:

- minerals (the minerals in soil come from finely broken-down rock);
- air;
- water;
- organic matter (including living and dead plants and animals).



Fossils are created when animals die and the imprint of their skeletons is left inside rocks.

Fossilisation

An animal dies. It gets covered with sediments which eventually become rock.	More layers of rock cover it. Only hard parts of the creature remain, e.g. bones, shells and teeth.	Over thousands of years, sediment might enter the mould to make a cast fossil . Bones may change to mineral but will stay the same shape.	Changes in sea level take place over a long period.	As erosion and weathering take place, eventually the fossil becomes exposed.
				