



Year 3 Science - What on Earth is beneath our feet?



Key vocabulary

Igneous rock - Rock formed from magma or lava.

Sedimentary rock - Rock formed from layers of sediment being pressed down hard and sticking together.

Sediment - natural solid material that is moved and dropped off to a new place by wind or water.

Metamorphic rock - Rock that started out as Igneous or Sedimentary and has been changed with extreme heat or pressure.

Magma - molten rock that stays underground.

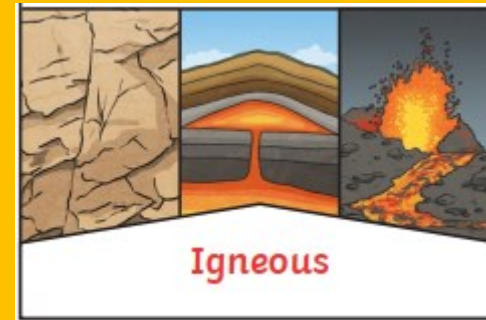
Lava - molten rock that comes out of the ground.

Fossilisation - the process by which fossils are made.

Palaeontology - the study of fossils.

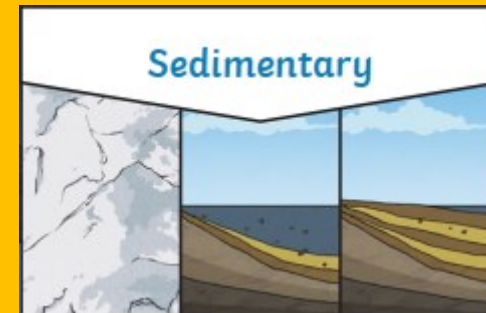
Erosion - when water, wind or ice wears away land.

There are three types of natural rock



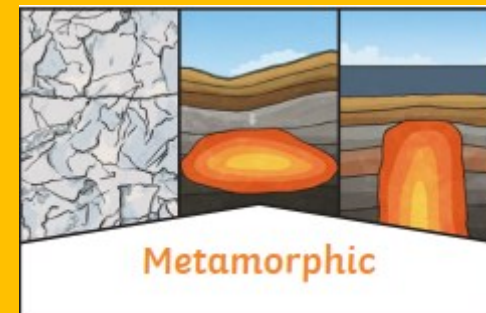
For example :

Granite



For example :

Limestone



For example :









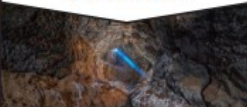


Slate





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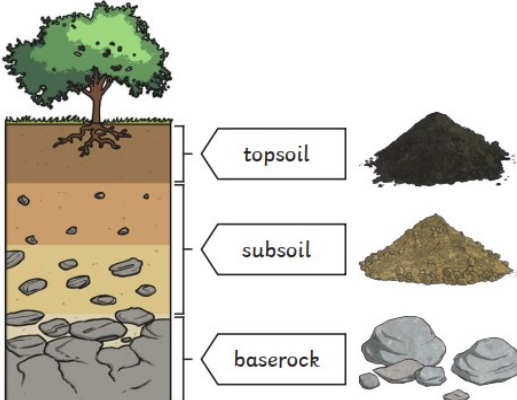


Natural Rocks			Human-Made Rocks
Igneous	Sedimentary	Metamorphic	
Obsidian 	Chalk 	Marble 	Brick 
Granite 	Sandstone 	Quartzite 	Concrete 
Basalt 	Limestone 	Slate 	Coade Stone 

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).




Animal is buried by sediment and soft parts decay.

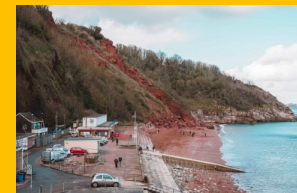
More sediment builds up and is compressed to form rock.

Minerals in the groundwater replace the bone forming a fossil.

The rock rises to the surface and is worn away by erosion.

Fossilisation

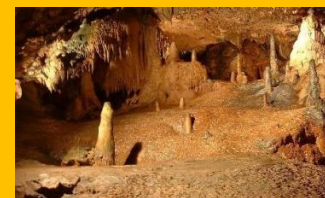
A fossil is the preserved remains or traces of a dead organism. The process is called fossilisation.



Odcombe beach - Sandstone



Dartmoor - Granite Tors



Kents Cavern - Stone Age caves



Long Quarry & Anstey's Cove - Limestone