

Science – Year 3

Spring 1 - Rocks and Soil

Key	Definition		
_			
Vocabulary			
Rock	Natural substance, made up of one or more		
	minerals.		
Fossil	Trace or remains of an ancient living thing.		
Igneous	Rock that has been formed by the cooling		
rock	and solidifying of magma or lava.		
Metamorphic	Rock that was once igneous or sedimentary		
rock	but has changed under the influence of		
	heat and pressure.		
Sedimentary	Rock that has been formed by layers of		
rock	sediment being pressed down hard and		
	sticking together.		
Peat	Formed when plant material does not fully		
	break down in acidic conditions, with no air.		
Sediment	Natural solid material that is moved and		
	dropped off in a new place by water or		
	wind, e.g. sand.		
Lava	Molten rock (magma) that comes out of the		
	ground is called lava.		

There are 3 main types of rock:



Igneous rock

Pumice

Sedimentary rock



Metamorphic rock



Obsidian



Crust

Limestone

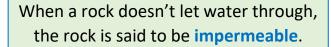


Slate

The Earth has 3 layers.

Mantle Core

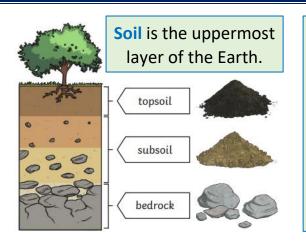
When a rock lets water through, the rock is said to be permeable.











Print is exposed by erosion

Soil is made from...

Air(oxygen, carbon dioxide, nitrogen etc.)

Organic matter(Living and dead plants and animals)

Water (air and water fill the gaps between particles of soil)

Minerals (from broken down rock)

There are three main types of soil:







Sand

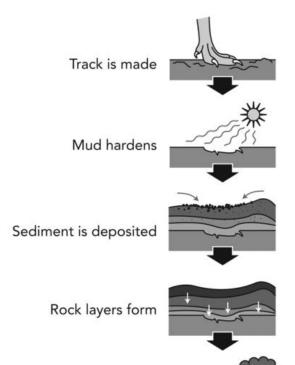
Silt

Clay

Loam soils are composed of a mixture of clay, sand and silt.



Sutton is mostly made up of **sedimentary rock**, with chalk and clay.



	Sedimentary	Igneous	Metamorphic
Hardness	The softest rock type.	Hardest type of rock.	Harder than sedimentary rocks.
Permeability/ Layers	Has layers and is permeable.	No layers/gaps (impermeable).	Has thin layers.
Do they contain fossils?	Fossils trapped in them.	No fossils because they would melt in the hot magma.	Fossils are usually squashed out of shape.
Appearance	Small grains of tiny rock particles and bits of dead animals and plants.	Interlocking crystals that fit very tightly together, making the rock very hard.	Interlocking crystals arranged in layers.
Structure			ett og p