

# KNOWLEDGE ORGANISER

# Rocks



ESSENTIAL ROCKS VOCABULARY	
<b>extrusive igneous rock</b>	rock that has been formed from molten lava and either cooled quickly or slowly
<b>igneous rocks</b>	rocks created from solidified lava
<b>intrusive igneous rock</b>	rock that has been formed under the Earth's surface over a long period of time
<b>magma</b>	hot liquid rock below the surface of the Earth; when a volcano erupts it can be seen and is called lava
<b>crystals</b>	a solid, clear mineral formed when liquid is cooled into a solid
<b>sedimentary rock</b>	rocks that are made from layers of sediment that has been subjected to heat and pressure
<b>limestone</b>	a type of sedimentary rock
<b>metamorphic rock</b>	rocks that have changed from igneous or sedimentary through heat and pressure
<b>sandstone</b>	a type of sedimentary rock made from layers of sand that has built up over millions of years
<b>weathering</b>	the wearing away of rocks which are broken down into smaller pieces
<b>acid rain</b>	rain which has been made too acidic by air pollution
<b>erosion</b>	the wearing away of rocks by wind or water
<b>material</b>	anything that is used to make something else
<b>property</b>	the way in which a material is describe
<b>metal</b>	a shiny and strong material that is found in the ground



Igneous Rock	Metamorphic Rock	Sedimentary Rock
Far underground the temperature is so hot, rock melts into a liquid (molten rock). When the liquid is underground, it is called magma and it can cool to form igneous rock.	Metamorphic rocks are formed under the surface of the earth from the change (metamorphosis) that occurs under the intense heat and pressure (squeezing).	These rocks form under the sea. Rocks are broken into small pieces by wind and water (erosion). They settle as mud, sand, minerals and even remains of living things. Over time layers build up and the pressure turns this sediment into rock.

What is geology?
Geology is a branch of natural science concerned with the Earth and other astronomical objects, plus the rocks of which they are composed.

What is soil made from?
<b>AIR</b> – Oxygen, carbon dioxide, nitrogen
<b>ORGANIC MATTER</b> – Living and dead plants and animals
<b>WATER</b> – Air and water fill the gaps between particles of soil
<b>MINERALS</b> – Broken down rock.

MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY	
<b>Materials (Y2)</b>	Everything is made out of a <b>material</b> .
<b>Materials (Y2)</b>	You can describe rocks using their <b>properties</b> .
<b>Everyday Materials (Y1)</b>	<b>Metal</b> is found in the ground.

