

Key Vocabulary

	Definition
rocks	rocks are made up of grains that are packed together
mineral	Minerals are solid chemical substances that occur naturally – examples include diamond, quartz, gypsum. Each grain that makes up the rock is made from a mineral.
permeable	Allowing water to pass through it
petrologist	Someone who studies rocks
magma	Liquid rock inside a volcano
lava	Liquid rock that flows out of a volcano. Fresh lava ranges from 1300 to 2200 degrees Fahrenheit (700 to 1200 degrees centigrade) in temperature and glows red hot to white hot when it flows.
Molten rock	A rock that has been reduced to liquid through heating.
fossils	the remains or impression of a prehistoric plant or animal embedded in rock
soil	Soil is a mixture of tiny particles of rocks, organic matter from animals and plants, as well as air and water

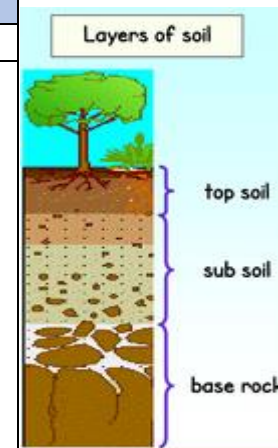


Key Knowledge

Soil
Half of soil is air and water. The water is in the soil and the air is in the gaps between the soil.

Things you might find in soil: sand, small stones, bits of leaf, and insect wing, root, ants.

Contained within the soil are millions of micro-organisms which help break down the matter and make the soil healthy and full of life.



Man made	Key Knowledge		
	sedimentary	igneous	metamorphic
Man made rocks are often used for buildings and structures.	Tend to be grainy in texture and may contain fossils e.g. sandstone and limestone	Tend to have interlocking grains giving the rock a crystalline appearance e.g. granite	Often has a crystalline appearance e.g. marble
Examples: Concrete and bricks	Formed from the fragments of other rocks that have been weathered, eroded and transported, by water, ice or wind and finally deposited (settled) as sediments in water or dunes	Formed by the solidification of molten rock or magma	After its original formation this rock has been altered in structure and composition by heat, and chemically active fluids.

Activities that you could do at home:

- Make 3D models of different types of rocks using papier-mâché.
- Research fossils and create a fact file or leaflet about fossils and how they are formed.

