

# The Spring Partnership Trust – Knowledge Organiser

Science Focus	Rocks	Year 3	Spring
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## What? (Key Knowledge)

What is a mineral?	A naturally occurring chemical with the same properties all the way through.
Rocks	Rocks are made of minerals, fragments of older rocks, or fossils.
Hardness	The most important property for classifying rocks. Hardness is the amount of resistance to scratching.
How is soil made?	From the ground when rocks are worn away (eroded). Soil consists of small bits of rock, organic matter, air, water and living things.
Rock formation	
Igneous	This is when molten rock (magma) has cooled.
Sedimentary	This is when the igneous rocks are worn down and carried by rivers and wind to the sea where they form sediment. Over time, layers of sediment build up and are compressed into rocks. These sometimes contain fossils.
Metamorphic	This when the structure of the rock has been changed due to intense pressure and heat.

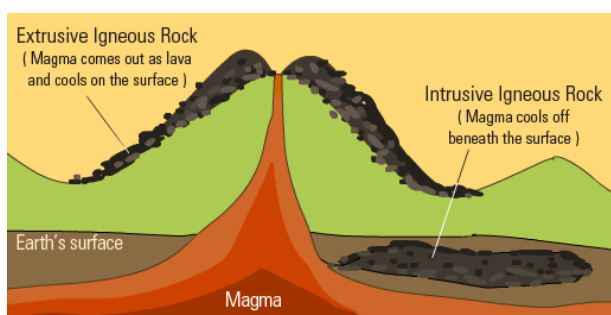
## • Statutory requirements

- Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
- Describe in simple terms how fossils are formed when things that have lived are trapped within rock.
- Recognise that soils are made from rocks and organic matter.

## What? (Key vocab)

Spelling	Definition
Fossil	Any preserved sign of past life more than 10,000 years old.
Magma	Magma is found beneath the surface of the Earth and forms igneous rocks when cooled.
Permeable	A material which allows liquids or gases to pass through it.
Impermeable	A material which does not allow liquids or gases to pass through it.
Solidify	To become hard or solid
Erosion	The gradual destruction or diminution of something
Volcano	A mountain or hill with a crater or vent through which lava, rock fragments, hot vapour, and gas are or have been erupted from the earth's crust.

## Diagrams



## Possible experiences

- Classify rocks from around the school.
- Survey – Which are the rocks near our school?
- Investigate - Which rock is the most permeable.
- Create own fossils.
- Use cereal to show different layers of soil.
- Design and create a volcano.