

## Key facts:

- Rocks are classified by the process in which they are formed.
- Igneous Rocks are formed from magma or lava once it has cooled.
- Sedimentary Rocks are rocks formed from layers of sediment which are then crushed under the pressure of yet more layers.
- Metamorphic Rocks are rocks formed when one type of rock is changed into another type by pressure and heat.
- Soil is made from tiny particles of rocks, organic material (rotting plants and animals), air and water. Living organisms, including worms and micro-organisms, live in the soil and help to keep it healthy.

## Important questions:

What happens when an animal dies?  
How is a fossil formed?  
What are the different layers of soil?  
What are the components of soil?  
What are the different types of rocks?

## Key skills for you to practice:

Make systematic and careful observations in the context of investigating the permeability of different soils.  
Record findings using simple scientific language.  
Reporting on findings from enquiries, including presentations of results and conclusions.

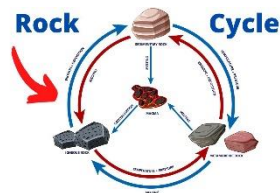
# Hopton Primary School

## Knowledge Organiser for KS2 Year 3/4 Topic: Rocks and Soils

### What do we need to learn?

The different types of rocks  
Grouping of rocks  
Fantastic fossils  
Mary Anning  
Soil formation  
Investigating soil permeability

### Key Images to discuss



## What I should already know:

KS1	Have an understanding of the seaside and volcanoes.
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## Links to Future Learning:

KS2	Link to mountains and rivers in upper key stage 2.
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## Key Vocabulary:

Word	What does it mean?
Rock	made up of grains that are packed together.
Mineral	solid chemical substances that occur naturally.
Fossil	the remains or impressions of a prehistoric plant or animal embedded in rock.
Igneous	lava or magma that has turned from liquid to solid (forming a rock).
Metamorphic	an igneous or sedimentary rock that has been changed by extreme heat or pressure.
Sedimentary	a rock formed from the build-up of sediment at the bottom of rivers or oceans.
Sediment	dead animals, plants or pieces of rock that settles to the bottom of a liquid..
Magma	Liquid rock inside a volcano.