



Knowledge Organiser: Science

Vocabulary

strong	hard	heavy	sedimentary	igneous	opaque	metamorphic	porous
fossils	layers	erosion	soil	slate	granite	chalk	sandstone
earthquake	volcano	pebble	boulder	crystal	weathering		



Year 3: Rocks

'Know That' Statements

By the end of each lesson, I will know and retrieve that...

Lesson 1

- That there are three main classifications of rocks, igneous, metamorphic and sedimentary.
- That sedimentary rocks are made up of tiny broken pieces of rocks, crystals and minerals.
- That a metamorphic rock starts of as one type of rock but changes into another.
- That igneous rock is formed from magma or lava.
- That rocks can be permeable, hard, soft, have density and that they can be grouped.

Lesson 2

- That fossils are things that are left behind when animals or plants die a very long time ago.
- When animal died, they were buried by dirt and rocks. Over a very long time, all that dirt and rock pressed down on them, and it turned into hard rock.
- The soft parts of the animals went away and water with tiny bits in it filled up the space left behind.
- Over time as the rocks are forced upwards, fossils come to the surface.

Lesson 3

- That soil is made of air, water, minerals and organic matter.
- That soil is made through four key processes: additions, losses, translocations and transformations.
- That translocations are movements within the soil.
- Transformations occur when something changes into something else.

Lesson 4

- Alluvial soil is a special kind of soil. It is usually found near rivers and streams.
- Alluvial soil is usually made when rivers bring tiny bits of rocks, minerals and nutrients from far away places and leave them behind on the land when the water slows down.
- Alluvial soil is often richer in nutrients than some other soil.

The Big Picture

What I should know already...

Year 2

- Identify and name a variety of everyday materials including rock.
- Identify and compare the suitability of a variety for everyday materials, including rock for particular uses

What I will learn...

1. I can compare and contrast the properties of different rocks.
2. I can order the process that takes place that forms fossils.
3. I can find out about and describe how soil is formed from rocks and organic matter.
4. I can respond to the question, "Are alluvial soils richer in nutrients than most other soils?"

Links to future topics...

Year 6

- To explore fossils.