

# National Curriculum Links:

#### Rocks

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.

## **Essential Prior Learning:**

Wood, metal, plastic, glass, brick, rick, paper and cardboard are all examples of materials.

Some materials occur naturally in the world; others need to be made.

There are observable differences between materials and they can be compared and grouped according to these.

Some materials can be changed by squashing, bending, twisting and stretching.

## **Progression in Skill:**

Develop criteria to identify, group, sort and classify

different kinds of rocks, taking into account

similarities and differences in their appearance and simple physical properties.

Identify changes related to simple scientific ideas and processes.

Describe how fossils are formed when things that have lived are trapped within rocks.

Recognise that soils are made from rocks and organic matter.

Use secondary sources: books, photographs and videos.

Read and spell simple scientific vocabulary correctly.

### Long-term Memory Knowledge:

There are different types of rock which are found in different places around the world.

Soil is a mixture of tiny particles of rock, dead plants and animals, air and water.

Different rocks and soils have a variety of properties which means they are suitable for different purposes.

Fossils were formed millions of years ago; most are formed when a plant or animal died in a watery environment and was buried in mud and silt.

Key Vocabulary	
	the process of being worn by
erosion	wind, water, or other natural
	agents
	hot fluid or semi-fluid material
magma	<b>below</b> or within the earth's
	crust

	hot molten or semi-fluid rock
lava	that has <b>erupted from</b> a
	volcano
fossil	any preserved sign of past life
	more than 10000 years old
sedimentary	rocks formed from other rocks
	or once living organisms
metamorphic	rocks formed when they
	experience high heat or
	pressure
igneous	when hot, molten <b>rock</b>
	crystallizes and solidifies
permeable	allows liquids or gases to pass
	through
impermeable	doesn't allow liquids or gasses
	to pass through

#### **Progression in Resources:**

Hand lenses

Range of different types of rock and soil

Relevance	
Now	Children know where fossils come from and why not everything that has lived becomes a fossil; they see
	rocks as something potentially useful.
	Children can select materials for a
Future	purpose, according to their
	properties.
	Use natural materials for specific
	purpose, e.g. sculptor or
Aspiration	stonemason.
	Develop a love for fossils and study
	as a palaeontologist.