

Enriching lives every day; enabling our school community to learn, achieve and flourish through living 'life in all its fullness'



Subject: Science

Year group: 3

Term: Autumn

Unit name: Rocks

is						
made. (Y1 - Everyday materials). Identify and name a variety of everyday materials,						
including wood, plastic, glass, metal, water, and rock. (Y1 - Everyday materials).						
Describe the simple physical properties of a variety of everyday materials. (Y1 -						
Everyday materials). Compare and group together a variety of everyday materials on						
the basis of their simple physical properties. (Y1 - Everyday materials). Identify and						
compare the suitability of a variety of everyday materials, including wood, metal,						
plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2 - Uses of						
everyday materials)						
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Spiritual Development Isaiah 43:19						
"See, I am doing a new thing! Now it springs up; do you not perceive it? I am making a						
way in the wilderness and streams in the wasteland."						

National curriculum:

- 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

Key vocabulary

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Rock	absorb water
Stone	soil
Pebble	fossil
Boulder	marble
Grain	chalk
Crystals	granite
Layers	sandstone
Hard	slate
Soft	soil
Texture	peat
	sandy/chalk/clay soil

Assessment for learning

Recapping prior knowledge- beginning of unit- what do children already know?

Beginning of each lesson- focus on recall of previous learning (quick quizzes)





Key Learning- what will the children know by the end of the unit?

Rock is a naturally occurring material. There are different types of rock e.g. sandstone, limestone, slate etc. which have different properties. Rocks can be hard or soft. They have different sizes of grain or crystal. They may absorb water. Rocks can be different shapes and sizes (stones, pebbles, boulders). Soils are made up of pieces of ground down rock which may be mixed with plant and animal material (organic matter). The type of rock, size of rock pieces and the amount of organic matter affect the property of the soil. Some rocks contain fossils. Fossils were formed millions of years ago. When plants and animals died, they fell to the seabed. They became covered and sauashed by other material. Over time the dissolving animal and plant matter is replaced by minerals from the water.

To be able to	There are three types of rocks that are	Sedimentary:-		Metamorphic:-
identify the different types of rocks.	 formed naturally. <i>Igneous:</i> - When molten magma cools, igneous rocks are formed. This either cools and forms rocks under the earth's surface, or flows out of erupting volcanoes as lava and may mix with other minerals. Examples include granite and basalt. This type of rock is strong, hardwearing and non-porous. 	 Sometimes, little pieces of been weathered can be f lakes, seas and rivers Thi Over millions of years, la builds up forming sedime Examples include limesto Sedimentary rocks are po- be worn down . 	found at the bottom of s is called sediment. yers of this sediment entary rocks. one and chalk.	 When some igneous and sedimentary rocks are heated and squeezed (pressured), they form metamorphic rocks. Examples include slate and marble. Metamorphic rocks are strong Bricks and concrete are not rocks because they are man-made.
To describe how fossils are formed.	 Fossils are the remains of prehistoric life. They are usually formed when a living thing (plant or animal) dies and the body is covered up or buried by sediment over tens of thousands of years. Some fossils are formed when the tough bones and teeth in animals, and the woody part of plants are preserved. 		Other fossils are made from imprints in surrounding sedimentary rock such as footprints or imprints from shells. Fossils tell us about the Earth and about life that existed hundreds of thousands and millions of years ago.	
To understand how soil is formed.	Soil is made from pieces of rock, mineral water. When rock is broken down into small gra There are layers of soil: above the soil is leaf litter and recently d as the soil becomes deeper, the rock gra bedrock is reached.	ains, soil is formed. lecaying plants.		