Rocks, Fossils and Soil

Year 3/4 **Alston Primary School**

Browiews Knowlodg

Key Vocabulary			Previous Knowledge					
Word	Definition		In Year 1 you learnt to: • Distinguish between an object and the material from which it is made.					nd rock.
Bedrock	The hard rock that rests under soil.		 Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties. In Year 2, you learnt to: Identify and compare the suitability of various everyday materials for particular uses, including wood, metal. 					
Erosion	Water, wind, and other natural forces cause rocks and earth to wear away.							
Fossil	The remains of a prehistoric plant or animal embedded in rock.		plastic, glass, brick, rock, paper and cardboard.					
Igneous	Rock that has been formed from magma or lava		• Change the shapes of solid objects made from some materials by squashing, bending, twisting and stretching					nd stretching.
Impermeable	Does not allow liquid to pass through it.		Natural Rocks		Human-Made	What makes soil?		
Lava	Molten rock that comes out of the ground is called lava.		Igneous	Sedimentary	Metamorphic	Rocks		
Magma	Molten rock that remains underground.		Obsidian	Chalk	Marble	Brick	Air - Oxyge	en, Carbon
Metamorphic	Rock that started out as igneous or sedimentary rock but changed due to being exposed to extreme heat			AT T		時時	dioxide, nitrogen, etc. Organic Matter Living and dead plants	
Organic Matter	Living and dead plants and animals.		Granita	La Candatana	and its			
Permeable	Allows liquid to pass through it.		Granite	Sanastone	Quartzite	Concrete	and anima	ls.
Petrologist	Somebody who studies how rocks are made and what they're made from.		AZ P	TR'SL			fill the gaps between	
Sedimentary	Rock that has been formed by layers of sediment being		Basalt	Limestone	Slate	Coade Stone	particles of	T SOII.
	pressed down hard and sticking together. You can see the layers of sediment in the rock.	1	113.2	- 36	The state		broken down rocks.	
Soil	Soil is the loose upper layer of the Earth's surface where plants grow. Soil consists of a mix of organic matter, air, water and minerals.		Living Creature	 Death and Decay 	Burial	Layers of rock build up	Minerals seep in	Layers of ro erode and expose a fos
Working Scientifically								
Asking releva	nt questions and using different types of scientific enquiries to answer the	m.	·	3.0025.		· · · · · · · · · · · · · · · · · · ·	and the second	S SUDY
 Setting up and conducting practical enquiries including comparative and fair tests. Making systematic and careful observations by taking accurate measurements using standard units and a range of equipment. 			Key Questions			Focus Scientist:		
 Gathering, recording, classifying and presenting data in a variety of ways to help answer questions 			What are rocks used for?			Mary Anning (1799-1847) was a		
 Recording findings using scientific language, drawings, labelled diagrams, keys, bar charts and tables. 			How are fossils made?			British fossil hunter who found		
 Reporting findings of results and conclusions. 			Which rocks are permeable?			fossils of many prehistoric animals		

- Using results to draw simple conclusions, make new predictions, suggest improvements and ٠ raise further questions.
- Identifying differences, similarities or changes related to scientific ideas and processes. ٠
- Using straightforward scientific evidence to answer questions or to support findings. ٠

What are the key properties of rocks? How/why do rocks change over time? How can I find my local bedrock? What is soil made from?

Ussus of many pre-Although not trained as a Scientist, her discoveries changed Science.

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