Scientist



Mary Anning (Fossilist)



Christopher Jackson (geologist)



I'm performing comparative and fair tests like a geologist.

I'm using scientific evidence to answer questions like a volcanologist.



Careers

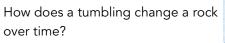
Geologist (studies the Earth and what it is made of, including rocks)

Volcanologist (studies volcanoes)

Enquiries



How does adding different amounts of sand to soil affect how quickly the Comparetive and fair testing water drains through it?





Is there a pattern in where we find volcanoes on planet Earth?

Identifying

lassifying ar grouping

Can you use the identification key to find out the name of each of the rocks in your collection?



Who was Mary Anning and what did she discover?

Y3 ROCKS

Brecknock





Children should be able to compare and group together different kinds of rocks based on their appearance and physical properties. To recognise that soils are made from rocks and organic matter. Finally, to understand that fossils are formed when living things are trapped within rock.

Natural Rocks			Human-Made
Igneous	Sedimentary	Metamorphic	Rocks
Obsidian	Chalk	Marble	Brick
	AL AL		
Granite	Sandstone	Quartzite	Concrete
	100m	AL.	
Basalt	Limestone	Slate	Coade Stone
			R
	Kev Le	earning	

- There are three types of rock that are formed naturally: Igneous, Sedimentary and Metamorphic.
- Igneous rocks are formed when molten magma cools. It is a strong, hard-wearing and non-porous ٠ rock. Examples: granite and basalt.
- Little pieces of rocks that have been weathered can be found at the bottom of lakes, seas and rivers, this is called sediment. Over millions of years, layers of sediment build up to form sedimentary rocks. Examples: limestone and chalk.
- Metamorphic rocks are formed when some igneous and sedimentary rocks are heated and pressured. Examples: slate and marble.
- Fossils are usually formed when a living thing dies and the body is covered by sediment over tens of thousands of years. Other fossils are made from imprints in surrounding sedimentary rocks.
- Caves are formed when water permeates through the base rock and erodes some of the rock away.
- Soil is made from pieces of rock, minerals, decaying plants and water. There are layers of soil: above • the soil ie leaf litter and

recently decaying plants, as the soil becomes deeper, the rock grains become larger until bedrock is reached.



What you should already know

Soil contains nutrients and these help plants to grow.

Magma is molten rock that is formed in very hot conditions inside the earth.

Absorb means to soak up or take in.

Why some materials are used for certain purposes because of their properties.

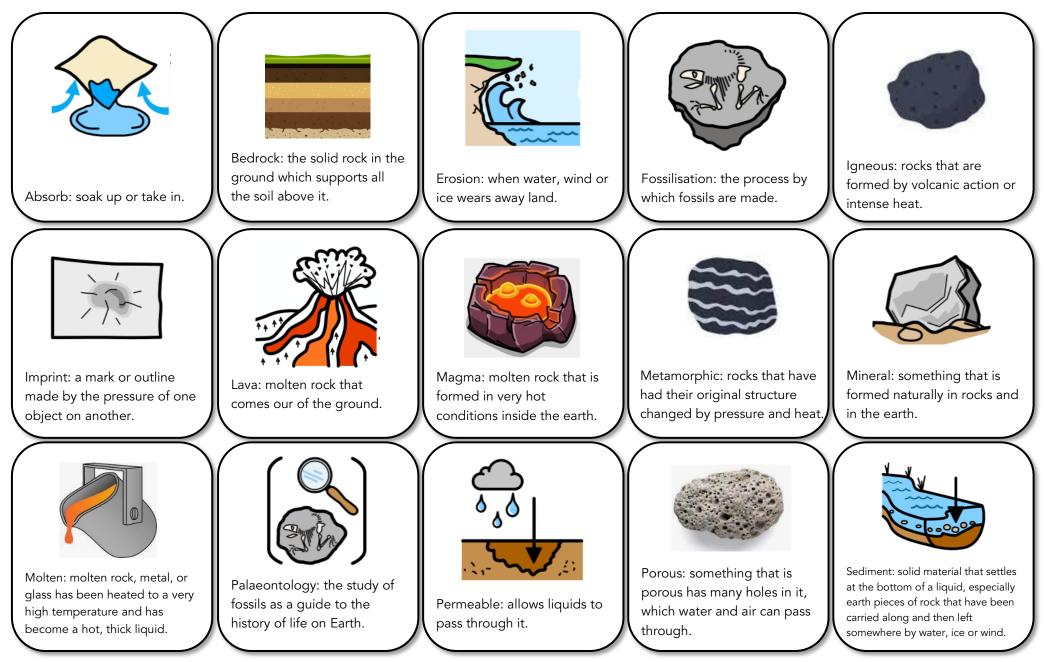
What comes next?

Year observe that some materials change state when they are heated.

Key vocabulary

Absorb	Palaeontology	
Bedrock	Permeable	
Decaying	Porous	
Erosion	Sediment	
Fossilisation		
Igneous		
Imprint		
Lava		
Magma		
Metamorphic		
Mineral		
Molten		

Year 3: Rocks



Year 3: Rocks

