

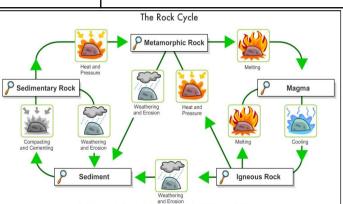
Inquiry Question: Why are there different Rocks?

Rocks

Key Vocabulary and Phrases



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Туре	How are they formed?	Features	Erosion	The gradual wearing away of something.	
Sedimentary	Sedimentary rocks are formed from particles of sand, shells, pebbles, and other fragments of material. Together, all these particles are called sediment. Gradually, the sediment accumulates into layers and over a long period of time hardens into rock.	Usually crumbly and allow water through them Made of layers and stuck together with mineral crystals They can contain fossils within their layers	Magma	Hot fluid below or within the earth's crust from which lava and other igneous rock is formed on cooling.	
			Tectonic plates	A layer under the ground made up of large, moving pieces called plates. All of Earth's land and water sit on these plates.	
			Solidify	To become solid or hard.	
			Dissolve	To become part of a liquid	
Metamorphic	Metamorphic rocks are formed under the surface of the earth from the metamorphosis (change) that occurs due to intense heat and pressure (squeezing).	Usually hard May contain tiny crystals or fossils	In Year 2, you learnt to: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. How are fossils formed? An animal dies, its skeleton settles on the sea floor and is buried by sediment. The sediment surrounding the skeleton thickens and begins to turn to stone. The skeleton dissolves and a mould is formed. Minerals crystallise inside the mould and a cast is formed. The fossil is exposed on the Earth's surface.		
Igneous	Igneous rock is formed when magma cools and solidifies, it may do this above or below the Earth's surface.	Very hard Contain crystals			
		What is soil made from	,		



Minerals (small stone fragments: clay, silt or sand)

Organic Matter (decaying plants and animals)

Water (which the nutrients in the minerals and the organic matter dissolve into)

Air (which fills the gaps between the mineral and organic matter parts).

dark, crumbly and rich in nutrients (chemicals plants need to grow).

Types of soil

Sandy soil is pale in colour with lots of small air gaps. Water drains through sandy soil easily so it usually feels quite dry. Clay soil is an orange or blue-ish sticky soil with very few air gaps. Water does not drain through it easily. When it rains, puddles stay on top of clay soil for a long time. Chalky soil is a light brown soil. Water drains through it quickly. Peat is different from other soils because it does not contain any rock particles. It is made from very old decayed plants and is



Working Scientifically - Rocks



Key Vocabulary and Phrases				
ask questions	Use the question words What, where, when why, how			
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)			
classify, sort and group	Organise rocks by their features — igneous, sedimentary and metamorphic (e.g. colour, size, shape).			
diagram	A labelled picture			
record data	Drawings, scientific diagrams, photos, classification keys, tables, bar graphs and line graph, writing and numbers are ways to show what I have found out.			
reporting and presenting findings	Giving reasons, explaining causes and relationships, explaining results and trusting its accuracy			

How I could record my findings

Pictures For EXPLORING Use this if you want to tell the story of what you did or what you observed, e.g. bread

going mouldy

Table For FAIR TESTING/PATTERN SEEKING					
What I Change	What I measure				
Use this to record your information. You can transfer it into some of the other forms as well. It could be all					

numerical or words

Carroll Diagram For CLASSIFYING/GROUPING

	Red	Blue
Square		
Triangle		

Use this when you want to put objects into categories for having a property or not, e.g. prime/not prime numbers against even/not even (odd) numbers

What I could investigate

Create a comparative model of igneous, sedimentary and igneous rocks







How permeable are different types of soil?



Classify rocks according to whether they have grains or crystals.



Equipment I could use

A beaker to hold the soil.



A funnel to tip the water in.



Coffee filter paper for the soil.



A measuring cylinder to measure the amount of water.



A camera, pencil and paper to record what I find out.



