Year 3	9 Science			Rocks			
Key Knowledge			Key Vocabulary and Phrases				
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	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 soll 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).				
The Rock Cycle			 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 dark, crumbly and rich in nutrients (chemicals plants need to grow). 				

Year 3	9 Science		W	'orking Scier	rtifically - Rocks		
Key Vocabulary and Phrases			What I could investigate		Equipment I could use		
ask questions	Use the question words What, where, when why, how		Create a comparative mod	A CONTRACTOR OF		- 1	
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)		sedimentary and igneous rocks		A beaker to hold the soil.		
classify, sort and group	Organise rocks by their features - and metamorphic (e.g. colour, size,					B	
diagram	A labelled picture		How permeable are different types of				
record data	Drawings, scientific diagrams, pho tables, bar graphs and line graph, are ways to show what I have fou	, writing and numbers	soil?	-	A funnel to tip the water in.	Ĭ	
reporting and presenting findings	Giving reasons, explaining causes of explaining results and trusting its I could record my find	accuracy	Kana		Coffee filter paper for the soil.	7	
Pictures For EXPLORING	Table For FAIR TESTING/PATTERN SEEKING	Carroll Diagram For CLASSIFYING/GROUPI	Classify rocks according to they have grains or cry		A measuring		
	What I Change What I measure	Red Blue Square Triangle Use this when you want to	put		cylinder to measure the amount of water:	18.000	
Use this if you want to tell story of what you did or w you observed, e.g. brea going mouldy	hat it into some of the other forms	objects into categories for having a property or not, e prime/not prime number against even/not even (or numbers	1.9. 5	penc	I camera, il and paper ecord what I		