St Mark's Church of England School - Knowledge Organiser				
Subject: Science	Year: 3	Topic: Rocks		
What should I already know?	topsoil subsoil		Vocabulary	
The names of everyday materials: wood, metal, plastic, glass, brick, rock, paper and cardboard. These materials are suitable for a range of different uses e.g. metal for coins, wood for tables. Some materials can be changed by squashing, bending, twisting and stretching.			igneous rock	Rock that has been formed from magma or lava
			sedimentary rock	Rock that has been formed by layers of sediment being pressed down hard and sticking together.
What I should know at the end.	PFFF - bed	rock	metamorphic rock	Rock that started out as igneous or sedimentary rock but changed due
 There are 3 types of naturally occurring rock: igneous, sedimentary, metamorphic. Some rocks are made by humans: brick, concrete. When magma or lava cools and hardens it becomes an igneous rock Sedimentary rocks form under the sea through the process of sedimentation, compaction and cementation. Metamorphic rocks are formed when rocks are put under immense heat or pressure. This happens near magma or where tectonic plates meet. When an animal dies, it gets covered by sediment and then buried in layers of rock. After a while, only the hard parts (such as shells or bones) remain. This creates a fossil. Soils are made from minerals (finely broken down 	Natural Rocks Igneous Sedimentary Obsidian Chalk	Human-Made Rocks Marble Brick		to being exposed to extreme heat or pressure.
	Granita Sandetona Quartzita	Quartrite	magma	Molten rock that remains underground.
	A PARTY AND	Constant Constant	lava	Molten rock that comes out of the ground is called lava
	Basalt Limestone	Slate Coade Stone	sediment	Natural solid material that is moved and dropped off in a new place by water or wind, e.g. sand.
	Working Scie	entifically	permeable	Allows liquids to pass through it
	 Observing over time: observing rocks, exploring how and why they might have changed over time Classifying and Grouping: observe, classify and group rocks in a variety of different ways (grains, crystals or fossils) Secondary Sources: explore how fossils are formed. Comparative Testing: Explore different soils and identify similarities and differences between them 		Impermeable	Does not allow liquids to pass through it.
			palaeontology erosion	The study of fossils When water, wind or ice wears
rocks), air, water and organic matter				away land