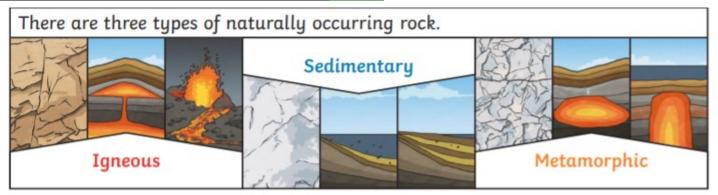
Carr Head Primary School - Knowledge Organiser

Science Rocks Year 3 Spring 1

	<u> </u>				
Key Knowledge					
How many types of rock are there?	There are three types of naturally occurring rock: igneous , sedimentary and metamor-phic .				
Natural rocks Igneous	Obsidian, Granite, Basalt.				
Natural rocks Sedimentary	Chalk, Sandstone, Limestone.				
Natural rocks Metamorphic	Marble, Quartzite, Slate.				
Human-Made rocks	Brick, Concrete, Coade Stone.				
Which words can I use to discus the properties of a rock?	Hard, soft, permeable, impermeable , durable, high density, low density. Density measures how 'bulky' the rock is (how tightly packed the molecules are).				
What is soil?	Soil is the uppermost layer of the Earth. It is a mixture of different things: minerals which come from finely brokendown rock); air; water and organic matter (including living and dead plats and animals).				

Key Vocabulary					
igneous rock	Rock that has been formed from magma of lava.				
sedimentary rock	Rock that has been formed by layers of sediment being pressed down hard and sticking together. You can see the layers of sediment in the rock.				
metamorphic rock	Rock that started out as igneous or sedimentary rock but changed due to being exposed to extreme heat or pressure.				
magma	Molten rock that remains underground.				
lava	Molten rock that comes out of the ground is called lava.				
sediment	Natural solid material that is moved and dropped off in a new place by water or wind, e.g. sand.				
permeable	Allows liquids to pass through it.				
impermeable	Does not allow liquids to pass through it.				
fossilisation	The process by which fossils are made.				
palaeontology	The study of fossils.				
erosion	When water, wind or ice wears away land.				

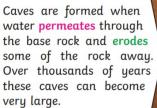


Observe rocks and explore how and why they might have changed over time; use a hand lens or microscope. Identify and classify rocks. Research and discuss the different kinds of living things whose fossils are found in sedimentary rocks and explore how fossils are formed. Explore different soils and identify similarities and differences between them. Investigate what happens when rocks are rubbed together or what changes occur when theya re in water. Raise and answer questions about the way soils are formed.

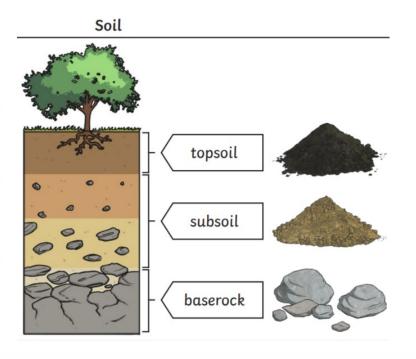
Carr Head Primary School - Knowledge Organiser

Science Rocks Year 3 Spring 1

	Human-Made			
Igneous	Sedimentary	Metamorphic	Rocks	
Obsidian	Chalk	Marble	Brick	
Granite	Sandstone	Quartzite	Concrete	
A				
Basalt	Limestone	Slate	Coade Stone	







Fossilisation						
covered with sediments	More layers of rock cover it. Only hard parts of the creature remain, e.g. bones, shells and teeth.	sediment might enter the	place over a long period.	As erosion and weathering take place, eventually the fossil becomes exposed.		
	The second second					