St Austin's R.C. Primary School - Science												
	Topic: Rocks	Year: 3		Strand: Physics								
Key Vocabu	lary	Key Knowledge										
igneous rock	Rock that has been formed from magma or lava .	There are three typ										
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.		entary									
metamorp hic rock	Rock that started out as igneous or sedimentary rock but changed due to being exposed to extreme heat or pressure.	Igneous	NO R	Metamorphic								
			Natural Rocks		Human-Made							
magma	Molten rock that remains underground.	Igneous	Sedimentary	Metamorphic	Rocks							
Ιανα	Molten rock that comes out of the ground is called lava .	Obsidian	Chalk	Marble	Brick							
sediment	Natural solid material that is moved and dropped off in a new place by water or wind,											
	e.g. sand.	Granite	Sandstone	Quartzite	Concrete							
permeable impermeable	Allows liquids to pass through it. Does not allow liquids to pass through it.	TAA		MAL.								
	Weathering and erosion	Basalt	Limestone	Slate	Coade Stone							
	Slow uplift to the surface deposition											
	Igneous rock Sedimentation	Some words you might use to discuss the properties of a rock:										
Magma	Crystallization of magma Compaction and cementatio Sedimentary rock	hard, soft, permeable , impermeable , durable (meaning resistant to weathering), high density, low density. Density measures how 'bulky' the rock is (how tightly packed the molecules are).										
Magma from	Melting Burial, high temperatures and pressures molten											

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Key Vocabulary			Key Knowledge								
fossilisation	The pro	cess by which fossils are made.	Soil			Additions- something is		ng is added			
palaeontology The study of fossils.			Soil is the uppermost layer of the Earth. It is	and a second second		Loses- parts of the soil are removed Transformation- something changes Translocation- something moves					
erosion Caves are formed w water permeates the the base rock and e some of the rock Over thousands of these caves can bee very large.	When w land. vhen hrough erodes k away years come	water, wind or ice wears away	 a mixture of different things: minerals (the minerals in soil come from finely broken-down rock); air; water; organic matter (including living and dead plants and animals). 			- topsoil - subsoil - base rock/ bedrock		Is rich in minerals and humus good for seed growth. Worms and rodents live here. Is thick and compact, only the roots of big strong plants can reach here. There is no plant or organic matter down here. Supports all layers above.			
Fossilisation											
An animal dies. covered with sed which eventually k rock.	It gets iments become	More layers of rock cover it. Only hard parts of the creature remain, e.g. bones, shells and teeth.	Over thousands of years, sediment might enter the mould to make a cast fossil. Bones may change to mineral but will stay the same shape.	Changes in sea level take place over a long period. fos		As erosi take pla fossil be	osion and weathering place, eventually the becomes exposed.				
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