Rocks and Fossils KNOWLEDGE ORGANISER

How are the Three Types of Natural Deals Formed?					1) A living thing, e.g.a dinosaur dies and falls to the	
ESSENTIAL ROCKS VOCABULARY		How are the Three Types of Natural Rock Formed?SedimentarySediment (small, broken parts of rocks) is carried by			bottom of an ocean or lake.2) The flesh rots away, leaving behind the hardest	
Igneous rock	Igneous rocks are formed when hot, molten rock solidifies.		rivers and streams. It is deposited into a lake where it builds up in layers. The sediment is the weight above it until it forms new rock. rock is layered, and fossils of dead animals a	e or a sea squashed Sediment	sediment settle, which puts pressures on the	
erosion	The process where rock is worn away by water, wind or ice.	0.0.0	found in the layers.		 layers below. The layers eventually turn into sedimentary rock. 4) Sometimes a mould fossil will form, where all the sedimentary for the sedimentary for the sedimentary rock. 	
sediment	The deposits of small stones and dirt that is dragged along by the current	Igneous	The inside of the earth is very hot (hot enou rocks into a molten rock called magma). Igno formed when magma breaks through the ea and cools.	eous rock	ck is ustand just an imprint will remain. Sometimes cast fossils will form, where sediment is transported into the mould and fills it over time to create a replica of the original organism.and eous5)Eventually, the material outside the mould will	
Sedimentary rock	Rock that has formed from sediment.	Metamorphic	Metamorphic rock is a combination of sedin igneous rock. It is forms when sedimentary a rocks are subjected to intense pressure and seismic activity in the earth's crust.	and igneo		
Metamorphic rock	Rock that has undergone transformation by heat or pressure.				weathering will cause the fossils to become exposed.	
	pressure.		Layers of Soil		Orteras	
permeable	Allowing liquid or gas to pass through it.	The top layer is called humus. It is made of dead leaves and animals.		Mary Anning		
impermeable	Not allowing liquid or gas to pass through it.	The next layer down is top soil. It is where their roots. Below that, there is subsoil. This usually has and stone in it.			Mary Anning was a famous fossil hunter. She was born in Lyme Regis, Dorset in 1799. She found the first complete fossil of an ichthyosaurus or 'fish-lizard.' Scientists from	
fossilisation	The process by which fossils are made.				London were amazed by her discovery. She went on to find more fossils that the world had never seen before, including a plesiosaur, a flying reptile and a prehistoric fish.	
rock	The solid mineral forming part of	large, solid rock beneath everything else.			Mary Anning died in 1847 and is remembered as one of the greatest fossil hunters who ever lived.	
	the surface of the earth.	MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY			Ways of Describing Rocks	
fossil	The remains or impressions of a prehistoric plant or animal embedded in rock.	Rivers	Sediment is found in the bottom of rivers.	 Hard and soft. This describes whether than can moulded by hand or will require specialist tools to cut. Permeable and impermeable. This describes weather water can pass through or not. Durable. This describes how resistant they are to erosion and weathering. High and low-density. This describes how tightly packed the molecules are. High-density rocks sink and low-density rocks float. 		
	The top layer of the earth. It is	Volcanoes	Igneous rocks are formed from magma from the earth's crust.			
soil	made from rocks and organic matter and water	Dinosaurs	Palaeontologists study <mark>fossils</mark> to learn more about dinosaurs.			

The Fossilisation Process