## Uplands Manor Primary School - Science Unit Organiser

Science To	nic		Rocks			Yea	r 3		
Science Topic:		NUCKS							
What? (Key Vocabulary)					What? (Key Knowledge)				
Spelling	Definition/Sentence				Types of Rocks				
Erosion	Erosion The gradual wearing away of something				There are				
	Hot fluid below or within the Earth's crust from			11	main typ rock		Igneous		
Magma	cooling A layer u	ava and other igneous rock is formed on under the ground made up of large, moving alled plate arth's land and water sit on these plates)			Sedimentary Metamorphic		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.		
Tectonic plates	(all of Ear						Metamorphic rocks are formed under the surface o the earth from the metamorphosis (change) that		
•	Solidify To become s							to intense heat and pressure (squeezing).	
Dissolve	Dissolve To become part of a liquid				Igneous		<b>Igneous rock</b> is formed when magma cools and solidifies, it may do this above or below the Earth's surface.		
Diagrams and Symbols					How to spot each type of rock				
					Sedimentary		<ul> <li>Made of layers a crystals</li> </ul>	and allow water through them and stuck together with mineral n fossils within their layers	
			a. Systems		Metamo	rphic	<ul> <li>Usually hard</li> <li>May contain tiny crystals or fossils</li> </ul>		
Sedimentary	Ν	/letamorphic	Igneous				Very hard	, . ,	
The Rock Cycle					Igneo	us	<ul> <li>Contain crystals</li> </ul>		
		$\sim$		11			How fossils a	are formed	
resting metrin					How are fossils formed? What is soil made from?		<ul> <li>floor and is but</li> <li>The sediment s and begins to t</li> <li>The skeleton d</li> </ul>	, its skeleton settles on the sea ried by sediment surrounding the skeleton thickens rurn to stone issolves and a mould is formed allise inside the mould and a cast is	
							The fossil is exposed on the Earth's surface     How is soil made		
							<ul> <li>Minerals (smal</li> <li>Organic Matter</li> <li>Water (which t the organic matter</li> </ul>	l stone fragments: clay, silt or sand) r (decaying plants and animals) he nutrients in the minerals and itter dissolve into) the gaps between the mineral and	
A minimum of two experiments should take place during this unit of work with one final written outcome linked to the scientific enquiry skills and approaches used.					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		
Describing in simple terms how fossils are formed when things that have lived are trapped within rock							few air gaps. Water does not drain through it easily. When it rains, puddles stay on top of clay soil for a long time.		
Comparing and grouping together different kinds of rocks on the basis of their simple physical properties							Chalky soil is a light brown soil. Water drains through it quickly. Peat is different from other soils because it does no carbin any cost particles. It is made from uppedd		
Making systematic and careful observations, gathering and recording data when eroding rocks							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).		
<b>Builds on:</b> learni Unit: Uses of Eve		Learning	inks Leads to: learning in Year 4 - Spring - Unit: States of Matter						