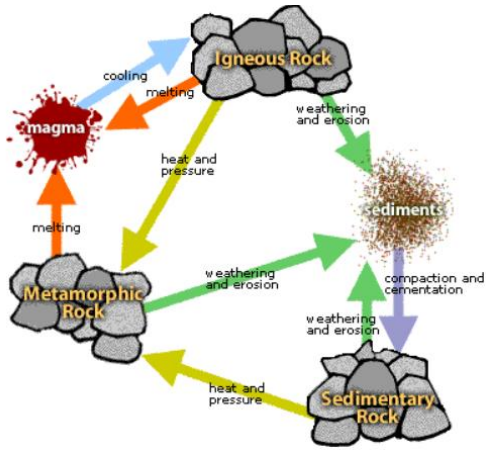
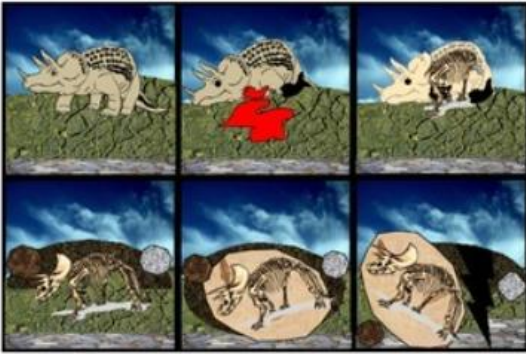


Year 3: Science Rocks & Stones Knowledge Mat

Subject Specific Vocabulary		The Rock Cycle	Important knowledge
rock	A naturally occurring material made of minerals.	 <p>The diagram illustrates the rock cycle with the following processes:</p> <ul style="list-style-type: none"> Magma (red) cools to become Igneous Rock (grey). Igneous Rock weathers and erodes into Sediments (brown). Sediments undergo compaction and cementation to become Sedimentary Rock (grey). Sedimentary Rock weathers and erodes back into Sediments. Sedimentary Rock is subjected to heat and pressure to become Metamorphic Rock (grey). Metamorphic Rock weathers and erodes into Sediments. Metamorphic Rock melts to become Magma. Magma melts to become Igneous Rock. 	<ul style="list-style-type: none"> <input type="checkbox"/> I know that rocks are made in different ways and this changes their appearance. <input type="checkbox"/> I know I know that I can group rocks based on their physical <input type="checkbox"/> properties. <input type="checkbox"/> I know that there is a reaction between vinegar and sedimentary. <input type="checkbox"/> rock. <input type="checkbox"/> I know that sedimentary rock is porous. <input type="checkbox"/> I know that metamorphic rock is hard. <input type="checkbox"/> I know how fossils are formed in sedimentary rock. <input type="checkbox"/> I know that soils are made from rocks, leaves, fungus, and water. <input type="checkbox"/> I know that the quantity of organic matter and the type of rocks that soils are made of will affect their drainage.
sedimentary rock	A rock which is formed on or near the Earth's surface from the compression of ocean sediments or other processes.		
igneous rock	Igneous rocks form when magma cools and crystallises.		
metamorphic rock	Metamorphic rocks start as one type of rock and, with pressure, heat, and time, gradually change into a new type of rock.		
geology	The scientific study of the Earth's structures.		
magma	Molten, or hot liquefied, rock located deep below the Earth's surface is called magma.		
solidify	To solidify is to make or become solid.		
fossil	The bones or other remains of living things are sometimes preserved in rocks as fossils		
sediment	Sediment is the small particles of stone or rock that sinks to the bottom of a river or lake and forms sedimentary rock.		
soil	Ground up rock mixed with plant and animal remains.		
		<h2>Fossil Sequence</h2>  <p>The fossil sequence shows three stages:</p> <ol style="list-style-type: none"> A dinosaur in a landscape. The dinosaur being buried by sediment. The dinosaur's remains preserved as a fossil in a rock cross-section. 	<p>Working Scientifically</p> <ul style="list-style-type: none"> <input type="checkbox"/> I can sort rocks into groups based on their appearance: shiny, dull, <input type="checkbox"/> crystals, grainy etc. <input type="checkbox"/> I can classify, group and sort rocks based on their physical <input type="checkbox"/> properties. <input type="checkbox"/> I can conduct a test to explore the characteristics of rocks. <input type="checkbox"/> I can use websites and text to find out how fossils are formed. <input type="checkbox"/> I can use websites to discover the importance of Mary Anning. <input type="checkbox"/> I can measure the time it takes for a given volume of water to drain <input type="checkbox"/> through different soils, in seconds. <input type="checkbox"/> I can plan an investigation to find out which sandy soil drains best.