




## Learning Organiser for Year 3 Science: Rocks

National Curriculum Summary Key Subject Concept		Key Questions
<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</li> <li>Describe in simple terms how fossils are formed when things that have lived are trapped within rock</li> <li>Recognise that soils are made from rocks and organic matter.</li> </ul> <p>Linked with work in geography, pupils should explore different kinds of rocks and soils, including those in the local environment.</p>		<ul style="list-style-type: none"> <li>How can rocks be grouped?</li> <li>How are fossils formed?</li> <li>How are soils formed?</li> <li>How do rocks change over time?</li> </ul>
Key Vocabulary	Definition	Key Facts
Fossil	The remains or impression of an animal or plant in a rock	<ul style="list-style-type: none"> <li>Rocks can be grouped by their appearances or by the way they are formed.</li> <li>The ways rocks are formed will affect the qualities they present (i.e. permeability, texture, appearance).</li> <li>Fossils are imprints of animal bones or plants into rocks which form over many years. They can help us learn about living things from the past.</li> <li>Soil is formed from broken down rocks and organic material.</li> <li>Rocks can change over time due to erosion.</li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Igneous rocks</p>  </div> <div style="text-align: center;"> <p>Sedimentary rocks</p>  </div> <div style="text-align: center;"> <p>Metamorphic rocks</p>  </div> </div>
Soil	The upper layer of earth in which plants grow	
Appearance	The way something looks	
Texture	The way something feels	
Permeable	A material that liquid can pass through	
Erosion	Wearing away of a surface due to weather or movement	
Igneous rock	Rocks formed when magma cools	
Sedimentary rock	Rocks made when layers of sand, mud and pebbles are pressed down over time	
Metamorphic rock	Rocks made from layers of the Earth's crust being heated and squashed	
Magma	Rock in a liquid form	
Working Scientifically Skills		Diagrams/Charts/Pictures
<p>Making systematic and careful observations</p> <p>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p> <p>Identifying differences, similarities or changes related to simple scientific ideas and processes</p>		

Possible Experiences	Biographical Information
<ul style="list-style-type: none"> <li>• Examining rocks and soils with lenses and microscopes</li> <li>• Discussing, sorting and grouping rocks</li> <li>• Taking rubbings of different rocks</li> <li>• Putting different rocks into water to see how the water level changes</li> <li>• Shaking different soils in a transparent screw top plastic container and leaving them to stand to reveal the contents in layers</li> <li>• Trip to quarry</li> <li>• Investigating the content of soil samples</li> <li>• Weston museum - archaeology department</li> </ul>	<p>Mary Anning (1799 - 1847) British palaeontologist and fossil collector.</p> 