

Science



<p>Lower Key Stage 2</p> <p>Year A Spring Term</p>	<p>Big Picture Question: Rocks (<i>Geography link</i>)</p>			<p>Resources</p>
<p>Science skills</p> <p>Developed through:</p> <ul style="list-style-type: none"> questioning using evidence enquiries and testing observations and measurement data conclusions and predictions differences, similarities and changes 	<p>What we want children to know:</p> <ul style="list-style-type: none"> Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties Describe in simple terms how fossils are formed when things that have lived are trapped within rock Recognise that soils are made from rocks and organic matter. 	<p>Science skills to be developed:</p> <ul style="list-style-type: none"> Observe rocks closely Classify rocks in a range of ways based on their appearance Devise a test to investigate the hardness of a range of rocks Devise a test to investigate how much water different rocks absorb Observe how rocks change over time e.g. gravestones or old building Research using secondary sources how fossils are formed Observe soils closely Classify soils in a range of ways based on their appearance Devise a test to investigate the water retention of soils Observe how soil can be separated through sedimentation Research the work of Mary Anning 	<p>Possible evidence:</p> <ul style="list-style-type: none"> Shows understanding of a concept using scientific vocabulary correctly Can name some types of rock and give physical features of each Can explain how a fossil is formed Can explain that soils are made from rocks and also contain living/dead matter Applying knowledge in familiar related contexts, including a range of enquiries Classify rocks in a range of different ways using appropriate vocabulary Devise tests to explore the properties of rocks and use data to rank the rocks Link rocks changing over time with their properties e.g. soft rocks get worn away more easily Present in different ways their understanding of how fossils are formed e.g. in role play, comic strip, chronological report, stop-go animation etc. Identify plant/animal matter and rocks in samples of soil Can devise a test to explore the water retention of soils 	<p>Labelled rocks/soil samples</p> <p>Hand lens/microscope</p> <p>Pictures of rocks/fossils</p> <p>Video clips of fossil formation</p> <p>Water retention test equipment</p> <p>Visitor: Geologist / garden centre / stone mason /</p>
	<p>Read, spell and pronounce vocabulary with confidence -:</p> <p>Scientific vocabulary: Compare, group, observe, appearance, describe, recognise, classify, devise, research, investigate, features, observation, effects, similar, different, similarity, difference, appearance, environment, devise</p> <p>Topic-specific vocabulary: Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil, grains, crystals, leaves, geologist</p>			