






<p>Programme of Study Statements</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>Key Vocabulary</p> <p>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</p>
<p>Investigations and Skills for thinking like a Scientist</p> <div style="display: flex; justify-content: space-around; align-items: center;">      </div>					<p>Sticky Knowledge:</p> <p>There are different types of rock.</p> <ul style="list-style-type: none"> • There are different types of soil. • Soils change over time. • Different plants grow in different soils. • Fossils tell us what has happened before. • Fossils provide evidence. • Palaeontologists use Fossils to find out about the past. • Fossils provide evidence that living things have changed over time.
<p>Comparative Tests</p> <p>How does adding different amounts of sand to soil affect how quickly water drains through it?</p> <p>Which soil absorbs the most water?</p>	<p>Identify & Classify</p> <p>Can you use the identification key to find out the name of each of the rocks in your collection?</p>	<p>Observation over time</p> <p>How does tumbling change a rock over time?</p> <p>What happens when water keeps dripping on a sandcastle?</p>	<p>Pattern seeking</p> <p>Is there a pattern in where we find volcanos on planet Earth?</p>	<p>Research</p> <p>Who was Mary Anning and what did she discover?</p>	<p>Prior Knowledge:</p> <ul style="list-style-type: none"> • Distinguish between an object and the material from which it is made. (Y1 - Everyday materials) • Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. (Y1 - Everyday materials) • Describe the simple physical properties of a variety of everyday materials. (Y1 - Everyday materials) • Compare and group together a variety of everyday materials on the basis of their simple physical properties. (Y1 - Everyday materials) <p>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2 - Uses of everyday materials)</p>
<p>Potential Evidence to support our Scientists (I can.):</p> <p>Can name some types of rock and give physical features of each</p> <ul style="list-style-type: none"> • Can explain how a fossil is formed • Can explain that soils are made from rocks and also contain living/dead matter • Can classify rocks in a range of different ways, using appropriate vocabulary • Can devise tests to explore the properties of rocks and use data to rank the rocks • Can link rocks changing over time with their properties e.g. soft rocks get worn away more easily • Can present in different ways their understanding of how fossils are formed e.g. in role play, comic strip, chronological report, stop-go animation etc. • Can identify plant/animal matter and rocks in samples of soil • Can devise a test to explore the water retention of soils 					<p>Future Knowledge:</p> <ul style="list-style-type: none"> • Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. (Y6 - Evolution and inheritance) • The composition of the Earth. (KS3) • The structure of the Earth. (KS3) • The rock cycle and the formation of igneous, sedimentary and metamorphic rocks. (KS3)

Big Question: What are rocks and soils like?		
Cultural Capital		
Visits and visitors Visit to Severn Beach to look at fossils Visit from a geologist	Experiences and events Handle different rocks and fossils	Key texts <i>The Pebble in My Pocket</i> (Meredith Hooper) <i>Stone Girl, Bone Girl</i> (Laurence Anholt) <i>The Street Beneath My Feet</i> (Charlotte Guillain & Yuval Zommer)
Community events and links	Global issues	Famous people/ Key Scientists Mary Anning (Discovery of Fossils) Inge Lehmann (Earth's Mantle)
Life Skills Curiosity Resilience Making Links	Key places School grounds	