

# Science Overview – Rocks

## Year Three

### Autumn Term

#### Key Question: Are we more the same or more different to Stone Age humans?

##### National Curriculum

- 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.

#### SUBSTANTIVE KNOWLEDGE

- 1) Know that there are three types of naturally occurring rock (igneous, sedimentary and metamorphic) and name some of each type.
- 2) Name some man-made rocks.
- 3) Describe the properties of different types of rocks.
- 4) Understand how caves are formed.
- 5) Know that soil is the uppermost layer of the Earth and the composition of soil (what's in soil and the three layers).
- 6) Describe how fossils are formed.

<b>Key Vocabulary</b>	igneous rock, sedimentary rock, metamorphic rock, magma, lava, sediment, permeable, impermeable, fossilisation, palaeontology, erosion, soil,
<b>Previous year groups key vocabulary:</b>	(Vocabulary from Y2 Everyday Materials) materials, suitability, properties, natural, man-made
<b>Disciplinary Concepts</b>	<ul style="list-style-type: none"><li>• asking relevant questions and using different types of scientific enquires to answer them.</li><li>• using results to draw simple conclusions, make predictions for new values and suggest improvements and raise further questions.</li></ul>
<b>Enquiry type to cover and enquiry suggestion</b>	<b>Comparative and fair testing (enquiry type)</b> How does adding different amounts of sand to soil affect how quickly water drains through it? <b>Research using secondary sources (enquiry type)</b> Who was Mary Anning and what did she discover?
<b>Learning Milestones /Assessment</b>	I can... <ul style="list-style-type: none"><li>• Identify different rock types.</li><li>• Describe how rocks are made.</li><li>• Name some properties of rocks.</li><li>• Say who Mary Anning is and describe her work.</li><li>• Explain how fossils are formed.</li><li>• Name the layers in soil.</li></ul>