

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.

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