

Context: This is the first Year 3 science unit and links to the discipline of **chemistry**. Children have studied properties of materials including rocks in KS1. This unit links to the Geography unit— **Why is our area important to geologists?**

Vocabulary

Tier 2

⇒ observe

⇒ igneous, sedimentary, metamorphic

⇒ porosity

⇒ durability

⇒ erosion

⇒ sediment

⇒ permeable/ impermeable

⇒ fossilisation

⇒ palaeontology



Tier 3

Knowledge

- ◆ Name 3 different types of rocks— igneous, sedimentary, metamorphic
- ◆ Identify properties of these rock types— e.g. crystals/ grains, porous, hard/soft, durability, density (resistant to weathering)
- ◆ Name the 4 different types of matter that soil is made from— rock, organic matter, air and water
- ◆ Know the difference between different types of soil (sandy, clay and chalky soil)— permeability
- ◆ Know the difference between a bone and a fossil
- ◆ Explain the main process of fossilisation
- ◆ Identify the importance and impact of Mary Anning's work



Skills

- ◆ To use secondary sources (video clips and pictures)
- ◆ To make systematic and careful observations to classify data
- ◆ To set up simple practical enquiries and comparative tests
- ◆ To present data using drawings and labelled diagrams
- ◆ To present data in a table
- ◆ To construct a two column data to record data
- ◆ To draw conclusions from data
- ◆ To report of findings using oral/ written presentations
- ◆ To use evidence to identify similarities and differences



Get inspired!



Lessons about the work of Mary Anning and William Smith— what did they discover and what was the impact of their work

Future careers— palaeontologist, geologist,

Recommended reads



The street beneath my feet? By Charlotte Gullian and Yuval Zommer

Stone girl, bone girl by Laurence Anholt and Sheila Moxley

Memorable experience/outcome



Link to Wren's nest nature reserve— fossil hunting— links to geography

Possible curriculum link to DT— make bags for fossil hunting.

Scientific Enquiry: Identifying, grouping and classifying



Research



Comparative/ fair testing

