

Year: 3 Term: Autumn 1

Rocks and Soils

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 KSI. This unit links to the Geography unit— **Why is our area important to geologists?**

## Vocabulary

Tier 2

- ⇒ observe
- ⇒ classify
- ⇒ secondary sources
- ⇒ comparative test
- ⇒ conclusion

Tier 3

- ⇒ igneous, sedimentary, metamorphic
- ⇒ porosity
- ⇒ durability
- ⇒ erosion
- ⇒ sediment
- ⇒ permeable/ impermeable
- ⇒ fossilisation
- ⇒ palaeontology



## 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!



Learn 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



- ◆ Visit 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

