

Year 3: What do rocks tell us about the way the Earth was formed?

Sci1	Can I describe what soil is made from and how?
Sci2	Can I identify igneous, sedimentary and metamorphic rocks?
Sci3	Can I compare and group rocks based on their properties? (permeable/impermeable, absorbent)
Sci4	Can I use a microscope or lens to investigate and classify rocks?
Sci5	Can I observe how rocks are used and how they change over time?
Sci6	Can I explain how fossils are formed?
Sci7	Can I research Mary Anning and explain why she is remembered?

We learn the following scientific knowledge and skills...

- 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
- Understand the differences between soil types
- Ask relevant questions and use different types of scientific enquiry to answer them
- Gather, record, classify and present data in a variety of ways to help in answering questions
- Observe rocks over time e.g. gravestones and buildings

Hook for Learning:

- Collection of rocks to investigate
- Books and documentary about Mary Anning
- The Street Beneath My Feet
- Fossil Jelly
- Making cast and mould fossils

We learn the following art knowledge and skills...

- Design a pattern using natural items that could be fossilised

We learn the following computing knowledge and skills...

- Use computers and iPads to research rocks to help us to classify them

We learn the following writing knowledge and skills...

Writing reports about Mary Anning.

We learn the following mathematical knowledge and skills...

Estimate, measure and compare the mass of different rocks

We learn the following vocabulary... fossils, rocks, soil, organic matter, grains, crystals, clay, nutrients, sedimentary rocks, dissolve, classify

Non-Negotiables

- Create a set of notes to summarise what has been read or heard
- Use more than one source when carrying out research
- Write under headings and subheadings
- Estimate mass and read scales

We discuss the following questions with links to our RE learning:

- Fossil Jelly – GATTB
- DIY Fossil – GATTB
- Real fossils have taken millions of years to form. What kinds of things do you think are most likely to be fossilised (think about plants, animals, leaves, bones, teeth, shells, skin, guts, sea creatures, land creatures etc.)?
- Fossils show us that the world is very old and that lots of different animals and plants have lived on Earth through its history. How do you think these ideas might fit with the **idea of God** creating everything? What might we learn about God by looking at evolution?