

Science



Rocks and soil

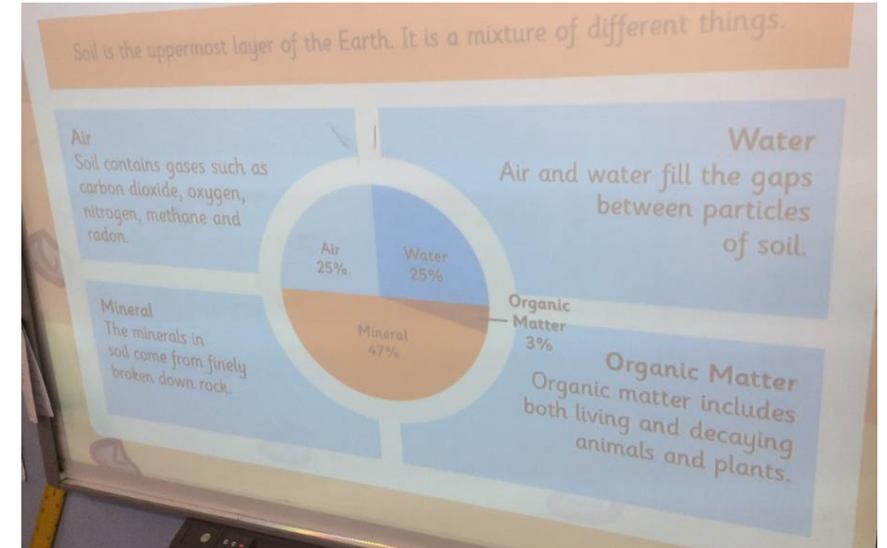
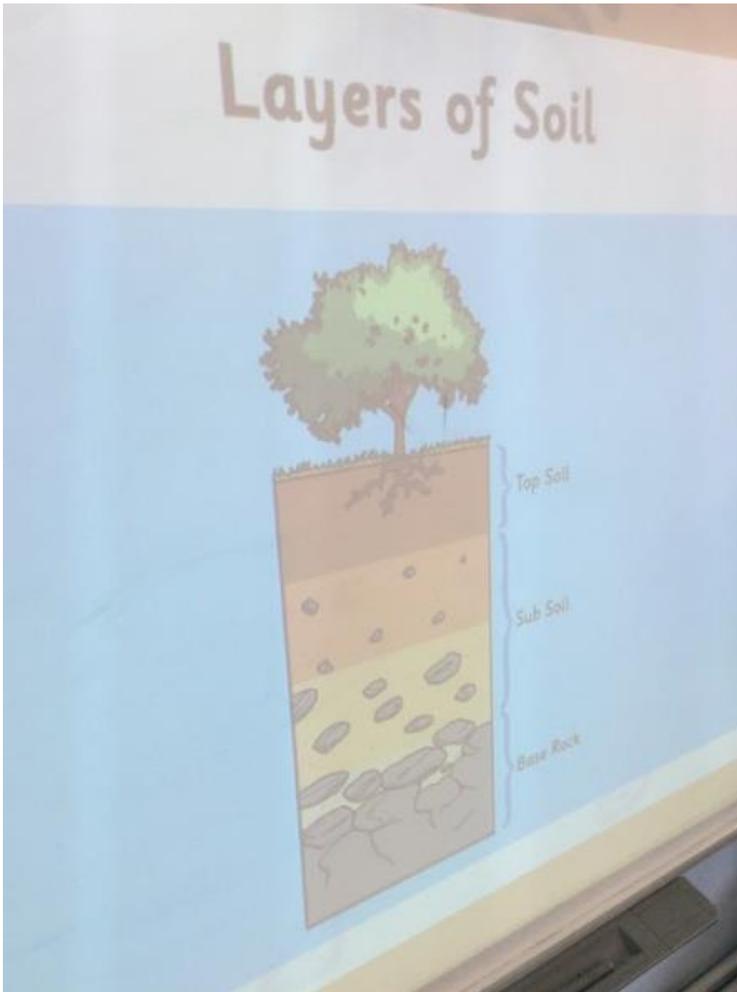


Class Tamar



Summer 2 2023

We started off our unit learning all about soil. We learnt that soil consists of a mix of organic material (decayed plants and animals) and broken bits of rocks and minerals. We carried out some research on the important role that soil plays in our environment.



Soil provides a place for plants to grow!

Soil is also a home for some animals and other living things.

Soil provides all the nutrients and water so that plants can grow.

We learnt about the three main types of natural rocks: Igneous, Sedimentary and Metamorphic. We then explored different rocks in the classroom, grouping them and giving them adjectives that we thought best described the way they looked and felt.



Granite is a type of igneous rock!

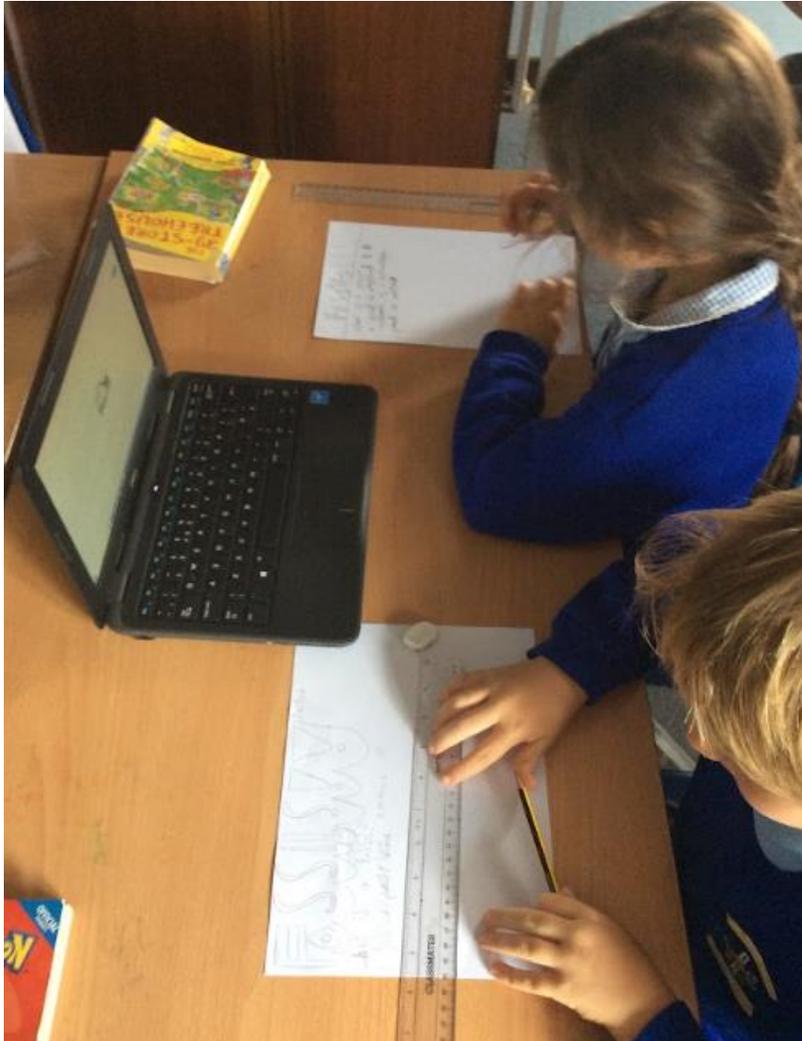


My favourite rock was the granite because it had lots of little crystals in it!



In the following lesson we carried out our own research on the different types of rock to create our own quiz for the whole class to take part in! It really tested our knowledge on the properties of Igneous, Sedimentary and Metamorphic.

We learnt about what fossils are and how they are formed and were set the challenge of finding out even more to create an information poster. We learnt that a fossil is the preserved remains or traces of a dead organism.



I didn't know that things like footprints, burrows and even poo can be fossilised too.



In the following session we learnt all about Mary Anning. Mary Anning was born on 21 May 1799. She lived in the English seaside town of Lyme Regis in Dorset. Today, Mary is remembered as one of the greatest fossil hunters to have ever lived.

To finish our unit we made our own fossils - this really helped us to visualise how a fossil is formed in real life! We then created our own story about where our fossil came from and how it was eventually formed.



I can really see the patterns from my shell!

This is like how a footprint would become as a fossil – it would first be pushed into the ground then layers form on top of it!



Science Year 3 Knowledge Organiser

Main Learning: Rocks

Key knowledge
Know that the Earth is made up of different types of rocks
Know how fossils are formed
Know what soil is
Know the difference between igneous, sedimentary and metamorphic rocks
Group together different rocks according to different attributes
Know that some crystals are extremely rare and valuable

Personal development:

Children make sense of the world around them. As an adult, careers could include, rangers, conservationists and scientists.

Vocabulary	
sedimentary	Are formed when sand, mud and pebbles get laid down in layers. Over time, these layers are squashed under more and more layers
metamorphic	When a rock experiences heat and pressure, it becomes a metamorphic rock
igneous	Is formed when magma cools and solidifies. It may do this above or below the Earth's surface
crystals	These are a special kind of solid material where the molecules fit together in a repeating pattern
fossil	A fossil is the preserved remains or traces of a dead organism
soil	Consists of a mix of organic material (decayed plants and animals) and broken bits of rocks and minerals

