

LKS2 Science Knowledge Organiser

Topic: Rocks & Fossils

Key questions:

- I can compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.
- I can describe in simple terms how fossils are formed when things that have lived are trapped within rock.
- I can recognise that soils are made from rocks and organic matter.

Key Information

Igneous rocks

... are rocks that form when lava cools creating crystal structure rocks.



Metamorphic rocks

... are formed when other rocks are affected by great temperature and pressure



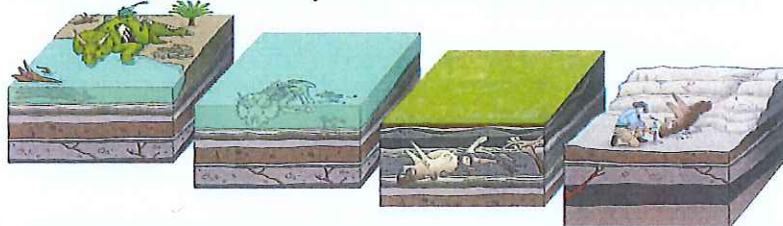
Sedimentary rocks

... are formed by layers of sediment collecting and solidifying, these rocks will have layers throughout.



Fossils

... are the remains of traces of plants and animals that lived in the dinosaur era. A lot of fossils are found underwater and you can see the outline of the skeleton.



Soil

... is a mixture of tiny particles of rock, dead plants and animals, air and water. Different soils have different properties depending on their composition.



Did you know...?



Mary Anning is remembered as being one of the greatest fossil hunters to ever live. She was born on 21 May 1799. She lived in the English seaside town of Lyme Regis in Dorset. Her family were very poor, which meant she didn't get to attend school much. Instead, she mainly taught herself to read and write. Mary would spend her time searching the coast looking for what she called 'curiosities'. Later in her life, as she developed a better understanding of her finds, she realised they were actually fossils. Over the course of her life she made many incredible discoveries. This made her famous among some of the most important scientists of the day. They would visit her for advice and to discuss scientific ideas about fossils.

Key vocabulary

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|-----------------------|------------------|-------------|
| • physical properties | • sedimentary | • topsoil |
| • sediment | • fossil | • subsoil |
| • igneous | • organic matter | • bedrock |
| • metamorphic | • humus | • permeable |