Knowledge Organiser - Science - Year 3 - Spring 1 - 2025 Rocks and Fossils

STICKY KNOWLEDGE

The layers of the Earth are the crust, mantle, outer core and inner core.

Chemical, physical and biological weathering effects rocks and changes their appearance.

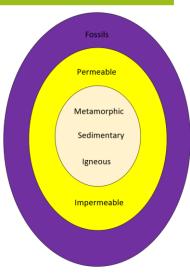
There are 3 types of rock that are formed on Earth

Fossils are formed when things that have lived are trapped within rocks

Layers, crystals and crumbly textures helps us to classify and sort rocks.

Soil is made from rocks and organic matter. Sand, silt and clay are 3 main types of soil.

Natural Rocks Human-Made Rocks Igneous Sedimentary Metamorphic Obsidian Chalk Marble Brick Granite Sandstone Quartzite Slate Basalt Limestone Coade Stone



Key Scientist:

Mary Anning was an English fossil collector and palaeontologist who became known around the world for the discoveries she made in Jurassic marine fossil beds in the cliffs along the English Channel.



KEY VOCABULARY

Igneous	Rock that has formed by the cooling and hardening of molten lava or magma.
Metamorphic	Rock that started out as igneous or sedimentary but changed due to being exposed to extreme heat or pressure.
Sedimentary	Rock that has been formed by layers of sediment being pressed down hard and sticking together.
Permeable	Allows liquid to pass through it.
Impermeable	Does not allow liquids to pass through it.
Fossils	The remains or traces of plants and animals that lived a long time ago.