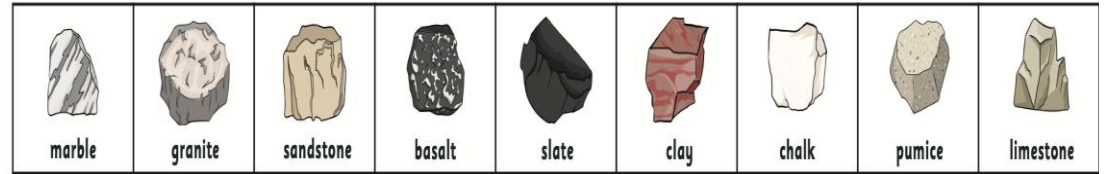




Year 3 & 4 Science Knowledge Organiser

Rocks and fossils

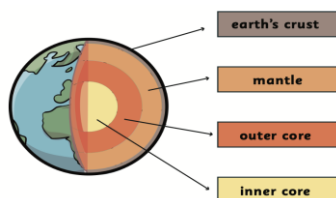


Vocabulary Recap

Natural	Found in nature, not made by people
Human-made / man-made	Made by people
Texture	How something feels when you touch it

Key Vocabulary

Rock	A solid mass of minerals that have joined together naturally over time
Permeable	Allows liquid to pass through it
Impermeable	Doesn't allow liquid to pass through it
Igneous rock	Rocks formed by cooled magma
Metamorphic rock	Rock formed from changes of heat or pressure
Sedimentary rock	Rock formed by layers of sediment
Soil	Made up of pieces of rock, minerals and organic matter
Fossil	The preserved remains of a dead organism



Sticky Knowledge

- Rocks are made of **minerals** and have different **properties**.
- Igneous rock** is formed when **molten** rock cools and **solidifies**. Examples: granite and basalt
- Sedimentary rock** is formed when small pieces of rock, sand or mud are **compacted** (pressed) together. Examples: sandstone, limestone, chalk
- Metamorphic rock** is formed when pre-existing rock (sedimentary or igneous) is exposed to heat and / or pressure.
- Fossils** are the remains of living things and are most often found in **sedimentary rocks**.
- Soil** is made from tiny pieces of rock, organic matter, air and water and is a part of the **rock cycle**.



Key Skills

- Observing rocks and fossils to notice features, patterns and differences
- Classification of rocks based on their properties e.g. texture, type, hardness.
- Recording and presenting data – note taking around rock characteristics, completing tables, diagrams.
- Asking questions and making predictions.
- Investigate changes to rocks
- Identify similarities and differences between different soils.

Resources

BBC: <https://www.bbc.co.uk/bitesize/topics/z9bbkat/articles/zqj9r2p#zbt77yc>

<https://www.bbc.co.uk/bitesize/articles/zgqkcmn#zq7p8p3>

Natural History Museum: <https://www.nhm.ac.uk/schools/teaching-resources/key-stage-2/rocks-fossils-and-dinosaurs.html>

