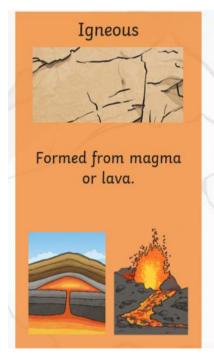
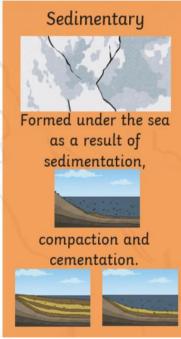
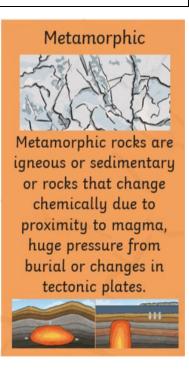
Rocks, Fossils and Soils Knowledge Organiser - Year 3

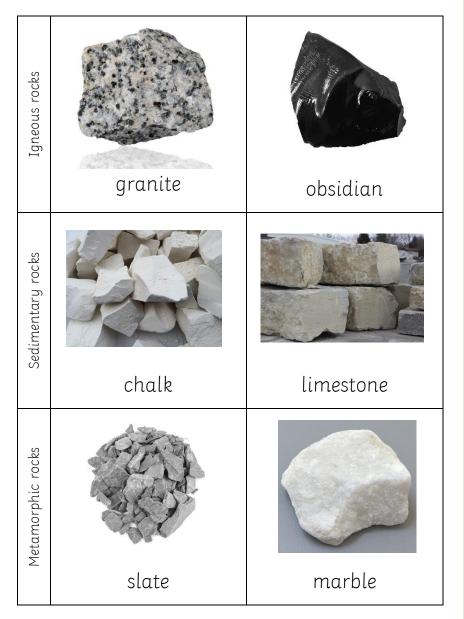
Key learning objectives

- I can name some types of rocks.
- I can describe the physical features of some rocks.
- I can classify rocks in a range of ways.
- I can devise tests to explore the properties of rocks.
- I can use data to rank rocks.
- I can link rocks changing over time with their properties e.g. soft rocks get worn away more easily.
- I can explain how a fossil is formed.
- I can present my understanding of how fossils are formed in different ways.
- I can explain that soils are made from rocks and also contain living/dead matter.
- I can identify plant/animal matter and rocks in samples of soil.
- I can devise a test to explore the water retention of soils.









How fossils are formed



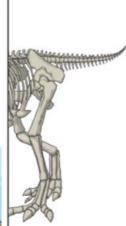
An animal dies.

Some parts of the body decay and, usually, only the skeleton is left.

The skeleton is covered with sand, earth, rock or seabed before the bones can disappear.

Over a very long time, the bones break down and leave a space in the earth, like an empty mould. Minerals slowly fill the space in layers, in the exact shape of the bones. Under lots of pressure, the new minerals harden into rock. The earth is eroded away by the weather or the sea. The rock fossil is exposed and discovered.





twinkl











Soil

There are many types of soil. These include:

- sandy mostly made up of sand. water drains well through it.
- loam a mixture of sand, silt and clay. It holds on to most of its nutrients and keeps enough water for plants to grow well.
- clay holds lots of water and nutrients
- peat formed from dead moss, shrubs and grass. It is very high in nutrients
- chalk contains lots of chalk so plants find it hard to grow. It drains water quickly.
- silt medium sized particles which hold on to enough water for plants to grow.

