Knowledge Organiser: Rocks

Careers Explored:
Geology, Geophysicist, Geochemist & Geoscientist

ROCKET WORDS
Learn these words and their definitions.

Key Word	Definition
metamorphic rock	A rock made by changing existing rocks by heat or pressure.
igneous rock	A rock made from solidified lava or magma.
sedimentary rock	Rock made when sand, mud and pebbles join in layers.
soil types	These include clay, chalky and sandy and depend on the feel and density of the soil.
weathering	When rocks get worn away and break due to physical, chemical or biological processes.
acid rain	Rain which becomes acidic due to pollution.
fossil	The remains of a prehistoric animal or plant embedded in a rock.
mineral	A solid substance naturally formed underground i.e. coal.

Weathering

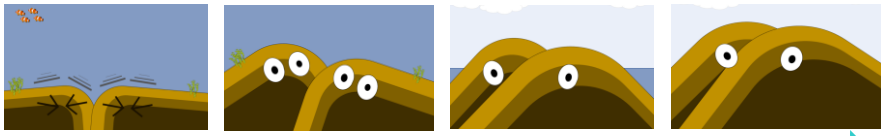
A good way to discover different types of weathering is by a trip to a graveyard.

Physical weathering is when rocks can be broken up by ice, which thaws in the rock and makes it crack.

Biological weathering is when plants and fungi, such as lichens and moss grow on the gravestone.

Chemical weathering can be caused by acid rain dissolving the rock over many years.

Rock Type
Rocks react to weathering in different ways. The most common rocks for gravestone are marble, slate and granite.



How mountains are formed.

The tectonic plates are constantly moving. Sometimes they join together and hit one another.

They don't break up, but instead push upwards in the water together.

They merge together underwater and eventually push above the water's surface to form a big mountain.

Eventually, a huge 'fold' mountain is formed. This is how the world's tallest mountain, 'Everest' was made.

Rock & Soil Types

Objectives

1. Describe how mountains are formed

2. Recognise the differences between igneous, sedimentary, and metamorphic rock

3. Understand what fossils are

4. Describe what soils are made of

5. Observe rocks, including those used in buildings and gravestones

6. Classify different types of gravestone weathering

Knowledge Organiser: **Forces with Rolls Royce**

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Q1: How are mountains formed?	Start of unit:	End of unit:

Q2: What are the main differences between the three different types of rock - metamorphic, igneous and sedimentary?	Start of unit:	End of unit:

Q3: What is a fossil?	Start of unit:	End of unit:

Q4: What are the different types of soil and what are they made of?	Start of unit:	End of unit:

Q5: Explain how rocks are be weathered.	Start of unit:	End of unit:

Q6: What can we learn from a gravestone and why?	Start of unit:	End of unit: