

Year 3 and 4: Rocks Knowledge Mat

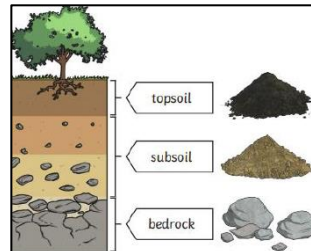
Subject Specific Vocabulary Dozen

rock	A solid material made up of one or more type of mineral.
sediment	Small particles of stone or rock that sinks to the bottom of a river or lake.
fossil	A fossil is the preserved remains or traces of a dead organism.
soil	Soil consists of a mix of organic material (decayed plants and animals) and broken bits of rocks and minerals.
crystals	Crystals are a special kind of solid material where the molecules fit together in a repeating pattern.
sedimentary	Sedimentary rocks are made when sand, mud and pebbles get laid down in layers. Over time, these layers are squashed under more and more layers.
metamorphic	When a rock experiences heat and pressure, it becomes a metamorphic rock. All metamorphic rocks start as another type of rock.
igneous	Igneous rock is formed when magma cools and solidifies. It may do this above or below the Earth's surface.
magma	Hot liquid from within the Earth's crust.
erosion	The process by which soil and rock is removed from one area of the Earth through natural causes such as wind, water, and ice and transported elsewhere.
permeable	Allows liquid to pass through it.
impermeable	Does not allow liquid to pass through it.

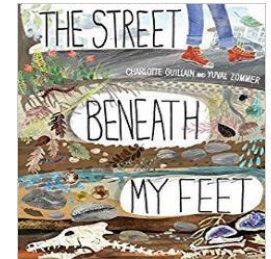
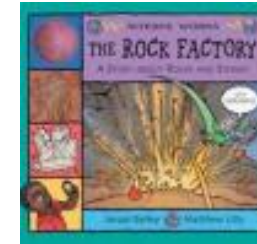
What I will know at the end of the unit:

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

Natural Rocks		
Igneous	Sedimentary	Metamorphic
Obsidian	Chalk	Marble
Granite	Sandstone	Quartzite
Basalt	Limestone	Slate



Exciting Books



Sticky Knowledge about rocks

- Rock is a naturally occurring material.
- There are different types of rock e.g. sandstone, limestone, slate etc. which have different properties.
- Rocks can be hard or soft. They have different sizes of grain or crystal. They may absorb water. Rocks can be different shapes and sizes (stones, pebbles, boulders).
- Soils are made up of pieces of ground down rock which may be mixed with plant and animal material (organic matter). The type of rock, size of rock pieces and the amount of organic matter affect the property of the soil.
- Some rocks contain fossils. Fossils were formed millions of years ago. When plants and animals died, they fell to the seabed. They became covered and squashed by other material. Over time the dissolving animal and plant matter is replaced by minerals from the water.

