



Topic: Rocks and Soils	Year: 3	Strand: Chemistry
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What should I already know?

In Key Stage 1, you learned about the properties of everyday materials and how they were suitable for different tasks.



Key Vocabulary	
formation	The start or creation of something.
permeable	Something that will allow water to flow through it.
impermeable	Something that will not allow water to flow through it.
mineral	A substance that is formed naturally in rocks and in the earth.
pressure	A force that is produced when something is pressed hard.
fossil	The hard remains of a prehistoric animal or plant that are found inside a rock.
crystal	A small piece of material that has formed into a natural symmetrical shape (e.g. quartz)
rock, stone, pebble, boulder, grain	Different sizes of rock
slate	A type of rock that can be split into thin layers. It is often used on roofs
sandstone	A rock type made of small grains often used for building houses and walls.
marble	A rock type with crystals often used in buildings and statues as it is shiny. It often feels cold to the touch.
granite	A type of rock made from magma. It contains crystals and is often used for building
chalk	A type of white rock made from fine grains
soil	The substance on the surface of the earth that plants grow in.

What will I know by the end of the unit?	
What is the study of rocks called?	Geology
Are all rocks hard?	No, they can be hard or soft.
What do you call rock that allows water to flow through it?	Permeable
Name a rock that has crystals.	granite, obsidian, pumice, marble
Name a rock that has grains.	sandstone, limestone, chalk
What types of soil can you name?	Peat, chalky, loam, sandy and clay
What is in soil?	Ground down rocks plus plant and animal material
When were fossils formed?	Millions of years ago
Where are fossils found?	In rocks
What happened to the plants and animals that became fossils?	They became covered and squashed. The bodies dissolved and were replaced by minerals from the water
Name a famous English fossil collector	Mary Anning

- Scientific Enquiry**
- *Set up a simple test to make comparisons*
 - *Record information in different ways (labelled diagrams, bar charts)*

- Objectives**
- Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.
 - Describe in simple terms how fossils are formed when things that have lived are trapped within rock.
 - Recognise that soils are made from rocks and organic matter.
- Useful Websites**
- <https://www.dkfindout.com/uk/earth/rocks-and-minerals/>