

Knowledge Organiser

Vocabulary

pictures	Key word	definition
	Geologist	Someone who studies rocks.
	Particle	A piece or bit of soil, differing in size.
	Organic matter	The remains of dead plants and animals
	Permeable	Allows gases and liquids to pass through.
	Impermeable	Does NOT allow gases and liquids to pass through.
	Sedimentary	Rock made from sand, pebbles and shells. Most likely to contain fossils.
	Igneous	Rock made from magma deep in the Earth that cools and hardens.
	Metamorphic	Rock formed under extreme pressure and heat.
	Fossil	The remains of a plant or animal embedded in rock.
	Fossilisation	The process of the remains of an animal or plant becoming preserved in rock.

Key Facts

The oldest known fossils were found in Greenland. They are thought to date back 3.7 billion years.

Rocks have been used by humans for millions of years, from early tools and weapons through to various construction materials.

Soil is like a cake made from lots of different things. Soil consists of crumbling rock or sand, clay, dead plant and animal remains, fungi and even manure. It also contains lots of tiny creatures, such as earthworms. Earthworms turn the plant and animal material into nutrients.

Further Reading

Rocks

For a range of resources related to rocks, look at the Geological Society website: <https://www.geolsoc.org.uk/heresources>

Fossils

Information about fossils including a game illustrating how difficult it is to make a fossil are on the Oxford University Museum of Natural History website: <https://www.oum.ox.ac.uk/thezone/funstuff/games/index.htm>

Soil

The British Society of Soil Science has information for youngsters on its website: <http://soils.org.uk/young-soil-explorers>

You might like to...

- Investigate different types of rock with different appearances and physical properties.
- Look for evidence of fossils in your local area.
- Identify which plants grow best in different types of soil.

GLUE ME

Programme of Study—Statutory Requirements

Pupils should be taught to:

- Compare and group together different types 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.

QUESTIONS TO DEEPEN YOUR LEARNING

Character	Critical Thinking	Creativity	Communication	Citizenship	Collaboration
Which parts of this do I need to try harder to understand ?	Why do I need to know about this ?	What am I curious about ?	How could I present what I understand ?	How could this information help people ?	What can I learn from others about this ?