

What should I already know?

- Distinguish between an object and the material from which it is made. (Y1 - Everyday materials)
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. (Y1 - Everyday materials)
- Describe the simple physical properties of a variety of everyday materials. (Y1 - Everyday materials)
- Compare and group together a variety of everyday materials on the basis of their simple physical properties. (Y1 - Everyday materials)
- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2 - Uses of everyday materials)

Scientific Knowledge:

- Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.
- Recognise that soils are made from rocks and organic matter.
- Working scientifically – Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.
- Describe in simple terms how fossils are formed when things that have lived are trapped within rock.
- Working scientifically – Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

Key Vocabulary and Definitions:

Fossil 	Fossils are the remains or traces of plants and animals that lived long ago.
Impermeable 	An impermeable surface prevents especially liquids to pass through.
Minerals 	Minerals make up Earth's rocks, sands and soils. They do not come from an animal or a plant.
Organic matter 	Organic matter has come from a recently living organism. It is capable of decay or is the product of decay.
Permeable 	A permeable surface allows materials like liquids to pass through.
Rock 	Rock is a hard material made up of one or more minerals.
Sedimentary rock 	They are formed of layers of sediment build up over thousands of years, they are compressed or squashed and become bonded together.
Soil 	Soil is a mixture of minerals and organic material that covers much of Earth's surface.
Shell 	A hard covering on the outside of an animal's body
Fossilisation 	The process through which a fossil is formed.
Weathering 	The breaking down of rocks over time.

Teaching Sequence

1. To group, identify and test rocks.
2. **Local rock experiment.**
3. To explore and understand the formation of fossils.
4. To explore and understand the importance of soil.
5. To plan, investigate and evaluate our soil experiment.

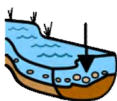
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Scientific Knowledge:

1. Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.
2. Describe in simple terms how fossils are formed when things that have lived are trapped within rock.
3. Recognise that soils are made from rocks and organic matter.

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Soil 	Soil is a mixture of minerals and organic material that covers much of Earth's surface.

Teaching Sequence

1. To know how fossils are formed.
2. To identify naturally occurring rocks and explore their uses.
3. To group rocks according to their properties.
4. To compare and group together different kinds of rocks on the basis of their properties. (TAPS)
5. To recognise that soils are made from rocks and organic matter.



Scientific Skills:

Term 2	Let's Talk (Explorify)	Scientific Knowledge	Scientific Skill
Lesson 1	Odd one out Animal Fossils https://explorify.uk/en/activities/odd-one-out/animal-fossils	2. Describe in simple terms how fossils are formed when things that have lived are trapped within rock.	Interpret and report
Lesson 2	The big question Which rock would be best for a skate ramp? https://explorify.uk/en/activities/the-big-question/which-rock-would-be-best-for-a-skate-ramp	1. Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	Observe and Measure
Lesson 3	Zoom in zoom out Surprising surface https://explorify.uk/en/activities/zoom-in-zoom-out/surprising-surface	1. Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	Interpret and report
Lesson 4	Zoom in zoom out Kaleidoscope of Colour https://explorify.uk/en/activities/zoom-in-zoom-out/kaleidoscope-of-colour	1. Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	Interpret and report (TAPS)
Lesson 5	Zoom in zoom out Why doesn't all soils look the same? https://explorify.uk/en/activities/zoom-in-zoom-out/the-mystery-grows/classroom	3. Recognise that soils are made from rocks and organic matter.	Observe and Measure