

# Science - Year 3 – Spring 2 – Rocks, Fossils and Soils

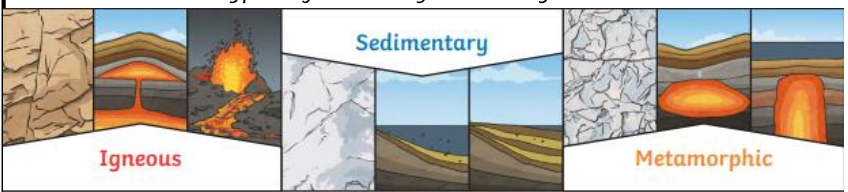
Vocabulary	Meaning
<b>erosion</b>	when water, wind or ice wears away the land.
<b>fossilisation</b>	the process by which fossils are made.
<b>igneous rock</b>	rock that has been formed from magma or lava.
<b>impermeable</b>	does not allow liquids to pass through it.
<b>lava</b>	molten rock that comes out of the ground is called lava.
<b>magma</b>	molten rock that remains underground.
<b>metamorphic rock</b>	rock that started out as igneous or sedimentary rock but changed due to being exposed to extreme heat or pressure.
<b>palaeontology</b>	the study of fossils.
<b>permeable</b>	allows liquids to pass through it.
<b>rocks</b>	rocks are made up of grains that are packed together.
<b>sediment</b>	natural solid material that is moved and dropped off in a new place by water or wind, e.g. sand.
<b>sedimentary rock</b>	rock that has been formed by layers of sediment being pressed down hard and sticking together. You can see the layers of sediment in the rock.

Skills
<ul style="list-style-type: none"> <li>• Identify naturally occurring rocks and explore their uses.</li> <li>• I am able to group rocks according to their characteristics.</li> <li>• I know how to plan, carry out and evaluate experiments to compare rocks.</li> <li>• I can identify that rocks are used for a particular purpose.</li> </ul>

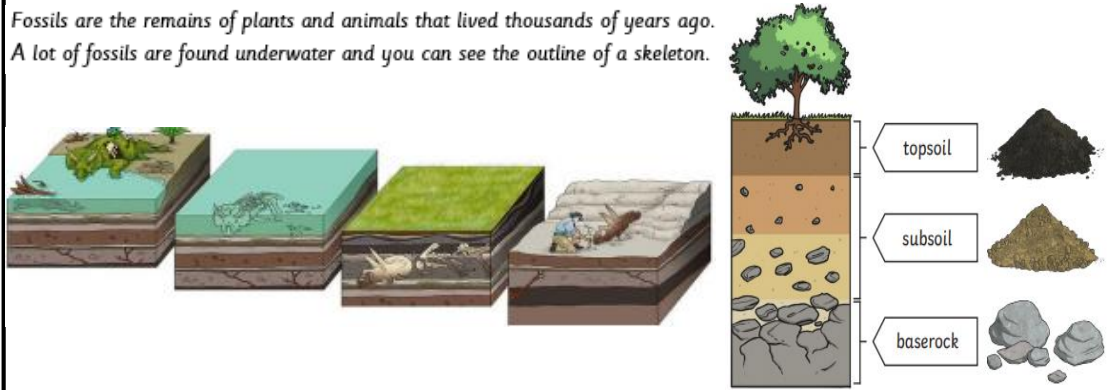
Books


## Knowledge

There are three types of naturally occurring rock.



Fossils are the remains of plants and animals that lived thousands of years ago. A lot of fossils are found underwater and you can see the outline of a skeleton.



## What I should be able to do and know now.

### Knowledge

*I know what rocks are and can suggest where they come from.*

*I know the difference between natural and man-made objects.*

*I know that the earth is made up of many layers and materials.*

*I know how non-fiction books can help my learning.*

### Skills

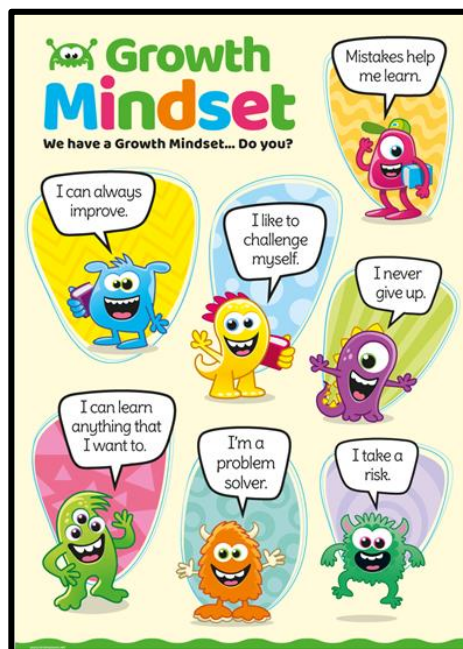
*I can observe and organise objects into categories and display my findings.*

*I am able to read information from a chart or table.*

*I can compare, sort and group objects, rocks, soils and fossils.*

*I can evaluate results and draw conclusions and opinions.*

## Growth Mindset Strategies



## What I will be learning

- I know the terms erosion and permeable.
- I can explore soil and how it is formed. I know that it is made up of rocks and decaying organic matter.
- I am able to identify fossilised remains and describe how fossils are made.
- To explore naturally occurring rocks and know that they are used for a variety of purposes.

## What I will know and be able to do at the end of the topic.

### Knowledge

*I can explain the difference between igneous, sedimentary and metamorphic rock.*

*I understand that there are natural rocks as well as human-made rocks.*

*Can you identify and explain the process of fossilisation?*

*Three igneous rocks are O\_\_\_\_\_, G\_\_\_\_\_ and B\_\_\_\_\_.*

*Three sedimentary rocks are C\_\_\_\_\_, S\_\_\_\_\_ and L\_\_\_\_\_.*

*Three metamorphic rocks are M\_\_\_\_\_, Q\_\_\_\_\_ and S\_\_\_\_\_.*

### Skills

*What type of chart or diagram can I use to display my results?*

*I can explain my predictions and conclusions using key words or prompts.*

*Investigate the different types of rocks, fossils and soils.*