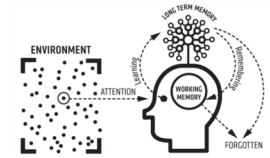




Lanercost C of E Primary School

Science Knowledge Organiser

Chemistry



Year 3/4

Autumn 1

Science Unit

Rocks

The **key vocabulary** taught during this half term of Science sessions will appear in **bold**. Frequent revisiting of this knowledge will aid fluency in Science.

In this unit, we are focusing on:

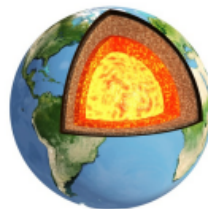
Rock types and how rocks are formed

What is soil?

How are fossils formed?

Earth's surface

completely made from rock
mostly covered by soil



rocks

formed from natural material called **minerals**
bricks and cement are **NOT** rocks

Rock type

Rock names

Made from

Formed

igneous

Latin:
'burning hot'

granite



magma

slowly cooled
(larger crystals)

basalt



lava

quickly cooled
(smaller or no crystals)

obsidian



magma

molten liquid rock **below** the surface
cools slowly



lava

molten liquid rock on the surface
cools quickly

conglomerate
(small stones)



broken up and carried away by rivers to the sea



deposited in layers and become **sediment** on the river bed and sea bed



compacted and cemented
(lots of fossils are found in these rocks)

sedimentary

Latin:
'sinking down'

mudstone



limestone



igneous
rocks

look grainy; some with patterns and lines

metamorphic

change form

marble



slate



**igneous
and
sedimentary
rocks**

squeezed by
tremendous forces

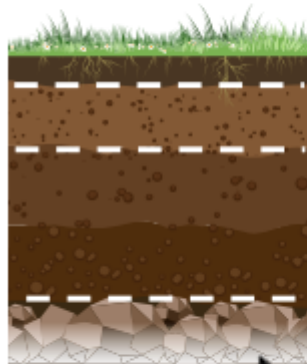


heated to incredible
temperatures



soil is made up of pieces of rock, minerals, decaying plants, micro-organisms and water.

humus remains of plants and animals that have died and are decaying.



top layer

of soil with lots of
nutrients and minerals.

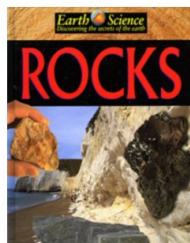
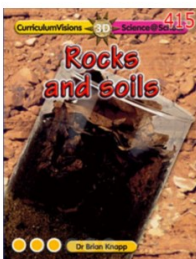
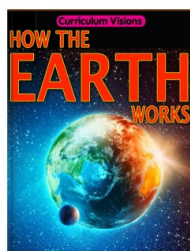
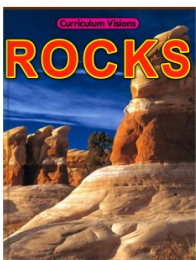
weathered rock

breakdown of rocks
into smaller pieces

solid rock

that soil sits on

Books linked to 'Rocks'



fossils

the remains of prehistoric life

1. plant or animal dies
2. buried in sediment
3. bones or imprints are turned to stone
4. sealed in rock



body fossils

actual remains of a plant or animal,
usually the hard parts.



trace fossils

footprints, trails, nests or changes to
the environment that only living
things can cause.

