

SEDIMENTARY

These rocks form under the sea. Rocks are broken into small pieces by wind/water (erosion). They settle as mud, sand, minerals and even remains of living things. Over time, layers pile up and the pressure turns this sediment into rock.



limestone
chalk
sandstone



A fossil is the remains or the impression left by a prehistoric plant or animal embedded in rock.

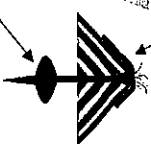
FOSSILS

IGNEOUS
For underground, the temperature is so hot, rock melts into a liquid (magma). When the liquid is underground it is called 'magma' and it can cool to form an intrusive rock. When it spills out (volcano), the liquid is called 'lava' and it cools to form extrusive rock.

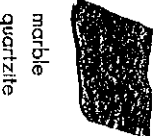


obsidian
granite
basalt

magma



1) An animal, creature or plant dies and ends up at the bottom of the sea. It gets covered in a layer of rock.



marble
quartzite
slate

2) Over time, more layers of rock form on top and the only thing which would remain are the bones or the space where the bones used to be (mould fossil).

3) Sometimes sediment enters the space where the bones used to be and takes the shape of the creature (cast fossil).

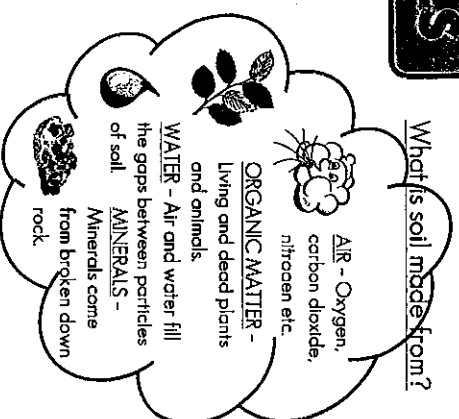
4) Over a long period, the sea may recede / go back leaving the rock.

5) Erosion and weathering of the rock means the fossil can now be seen!



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What is soil made from?



PROPERTIES OF ROCKS

- 1.) HARD / SOFT** - Some rocks need to be cut or split with tools because they are so hard (e.g. granite) but others are soft and can be moulded (e.g. clay).
- 2.) PERMEABLE / IMPERMEABLE** - Permeable rocks allow water to pass through (e.g. pumice) but impermeable rocks do not let water pass through (e.g. marble).
- 3.) DURABLE** - Rocks which are resistant to erosion last longer and are more durable. Buildings are often made with these (e.g. limestone).
- 4.) DENSITY** - If the particles in the rock are tightly packed then it has a high density. These rocks would sink in water (e.g. basalt).

MAN-MADE ROCKS (ANTHROPIIC)

These rocks are made by humans.
CONCRETE - a mixture of water, sand/rock/gravel and cement (chalk & clay).
BRICKS - Clay soil, sand or lime which have been air-dried or fire-hardened.
MOCK ROCK - Victorians made rock gardens and surfaces that looked like rock.

