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.

IGNEOUS

Far underground, the temperature is so hot, rock melts into a liquid (molten rock). 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.

METAMORPHIC

When sedimentary or igneous rock is near magma, it heats up and chemicals change in the rock. However, it does not heat up enough to melt it. As it cools it becomes metamorphic rock.

MAN-MADE ROCKS (ANTHROPIC)

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 MOCKROCK - Victorians made rock gardens and surfaces that looked like rock.



Imestone chalk sandstone



magma



marble quartzite slate



bones or the space where the bones used to be (mould fossils) 3.) Sometimes sediment enters the space where

the bones used to be and takes the shape of the creature (cast fossil).

and the only thing which would remain are the

left by a prehistoric plant or animal

embedded in rock.

It takes place in sedimentary rock

be too high for fossils to survive.

1.) An animal, creature or plant dies and ends

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!



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 lea clay!

2.) PERMEABLE / IMPERMEABLE -

Permeable rocks allow water to pass through le.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).