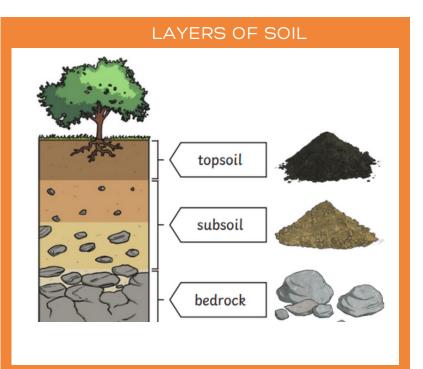


## what do rocks tell us about the way the YEAR 3 Earth is formed? SCIENCE

KNOWLEDGE MAT



#### **KEY VOCABULARY**

Igneous rock = rock that has been formed from magma or lave sedimentary rock= 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. metamorphic rock = Rock that started out as igneous or sedimentary rock but changed due to being exposed to extreme heat or pressure.

magma = Molten rock that remains underground.

lava = Molten rock that comes out of the ground is called lava.

sediment = Natural solid material that is moved and dropped off in a new place by water or wind, e.g. sand.

permeable= Allows liquids to pass through it.

impermeable= Does not allow liquids to pass through it.

fossilisation = The process by which fossils are made.

palaeontology = The study of fossils

erosion = When water, wind or ice wears away land.

# An animal dies. It gets covered with sediments which eventually become rock.

More layers of rock cover it. Only hard parts of the creature remain, e.g. bones, shells and teeth.

## FOSSILISATION

Over thousands of years, sediment might enter the mould to make a cast fossil. Bones may change to mineral but will stay the same shape.

Changes in sea level take place over a long period.

As erosion and weathering take place, eventually the fossil becomes exposed.







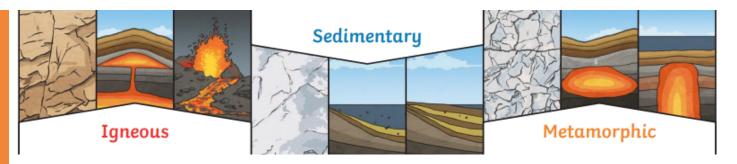




### KEY KNOWLEDGE



There are three types of naturally occurring rock.



## NATURAL ROCKS

## MAN-MADE ROCKS

Obsidian	Chalk	Marble	Brick
Granite	Sandstone	Quartzite	Concrete
A			
Basalt	Limestone	Slate	Coade Stone

Some words you might use to discuss the properties of a rock:

hard, soft, permeable, impermeable, durable (meaning resistant to weathering), high density, low density. Density measures how 'bulky' the rock is (how tightly packed the molecules are).