

# Year Three Science knowledge organiser– Can I identify different rock types and their properties?

## Key vocabulary

Impermeable	Does not allow liquids to pass through it.
Permeable	Allows liquids to pass through it.
Igneous rock	Rock that has been formed from magma or lava.
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 has 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

## Fossilisation

1. An animal dies and is covered with sediment which eventually becomes rock.
2. More layers of rock cover it. Only the hard part of the creature remain. E.g bones, shells and teeth.
3. Over thousands of years, sediment might enter the mould of the body to create a fossil.
4. Changes in sea level take place over a long period of time.
5. As erosion and weathering take place, eventually the fossil becomes exposed.

### Igneous rocks

**Obsidian**



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**Granite**



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**Basalt**



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### Sedimentary rocks

**Chalk**



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**Sandstone**



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**Limestone**



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### Metamorphic rocks

**Marble**



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**Quartzite**



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**Slate**

