

# Knowledge Organiser - Science: Rock and Roll

## What? (key Knowledge)

### Types of Rocks

There are three main types of rocks

- Sedimentary
- Metamorphic
- Igneous

**Sedimentary**

Sedimentary rocks are formed from particles of sand, shells, pebbles, and other fragments of material. Together, all these particles are called sediment. Gradually, the sediment accumulates into layers and over a long period of time hardens into rock.

**Metamorphic**

Metamorphic rocks are formed under the surface of the earth from the metamorphosis (change) that occurs due to intense heat and pressure (squeezing).

**Igneous**

Igneous rocks is formed when magma cools and solidifies, it may do this above or below the Earth's surface.

### How to spot each type of rock

**Sedimentary**

- Usually crumbly and allow water through them
- Made of layers and stuck together with mineral crystals
- They can contain fossils within their layers

**Metamorphic**

- Usually hard
- May contain tiny crystals or fossils

**Igneous**

- Very hard
- Contain crystals

### Types of Rocks



Sedimentary



Metamorphic



Igneous

## What? (key Vocabulary)

Spelling	Definition/Sentence
erosion	the gradual wearing away of something
magma	hot fluid below or within the earth's crust from which lava and other igneous rock is formed on cooling.
techtonic plates	a layer under the ground made up of large, moving pieces called plates. All of earth's land and water sit on these plates,
solidify	to become solid or hard
dissolve	to become part of a liquid.

## The Rock Cycle



