



# Year Three: Rocks and Fossils

## Knowledge Organiser



### The Big Idea

Rocks are formed in the Earth's crust and they have different properties. Soils are formed from the breakdown of rocks and decaying organic matter. Fossils are formed when dead animals are trapped within rocks.

#### Properties of rocks

Rocks are made out of minerals and have many different properties, including:

- Hardness
- Durability
- Permeability
- Density



#### Are rocks made in the same way?

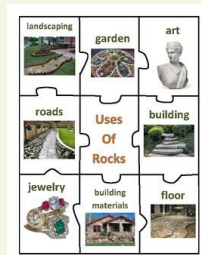


Rocks are formed in three different ways.

- Igneous rocks form when magma or lava hardens.
- Sedimentary rocks form from sediment compaction.
- Metamorphic rocks form by transformation of other rocks.

#### Uses of rocks

Rocks can be used for many different things and the properties of individual rocks make them good for particular uses.



#### Mary Anning

Mary Anning was an English fossil collector and palaeontologist.



#### Fossils



Fossils are the preserved remains of plants and animals whose bodies were buried in sediments, such as sand and mud, under ancient seas, lakes and rivers.

#### Soils



Soil is a mixture of air, water, broken down rock matter and other organic material. The common types of soil are clay, sand and silt.

### Vocabulary

rock    organic matter    permeable    impermeable    soil    fossil  
 igneous    sedimentary    metamorphic    magma