

## Bretnside Knowledge Organiser - Science

**Year: 3**

**Topic:** What do rocks tell us about how the world was formed?

**National curriculum:** Rocks—compare and group together different kinds of rocks on the basis of their appearance and simple physical properties .Describe in simple terms how fossils are formed when things that have lived are trapped within rock. Recognise that soils are made from rocks and organic matter.

### What I should already know:

I know what my school building is made of.  
I can identify which materials should the three little pigs have used to build their house.  
I understand how fossils are made and why would a dinosaur not make a good pet.

### What I should know at the end of the topic:

I can compare and group together different rocks based on their simple physical properties.  
I can describe and explain how different rocks can be useful to us.  
I can describe how fossils are formed and recognise that soils are formed from rocks and organic matter.  
I can classify igneous and sedimentary rocks.  
I can begin to relate the properties of rocks with their uses.  
I can ask relevant scientific questions.  
I can draw conclusions and suggest improvements.

### Investigate:

How are fossils formed?  
What is soil formation?  
What are fossils and why are they so fascinating?  
What can you find out about sedimentary and igneous rocks?  
Why is a diamond a 'girl's best friend'?  
Can you collect some rocks to create a rock sculpture?

### Diagrams:

#### ***TYPES OF ROCKS***



### Vocabulary

Rock	A solid mass made up of minerals. Rock forms much of the Earth's outer layer, including cliffs and mountains.
Sediment	Solid material that settles at the bottom of a liquid, especially Earth and pieces of rock that have been carried along and then left somewhere by water, ice, or wind.
Igneous	Rocks that are formed by volcanic action or intense heat .
Molten	Molten rock, metal, or glass has been heated to a very high temperature and has become a hot, thick liquid.
Magma	Molten rock that is formed in very hot conditions inside the Earth.
Man made	Things are created by people.
Surface	The flat top part of something or the outside of it .
Metamorphic	Rocks that have had their original structure changed by pressure and heat .
Properties	The qualities or features that belong to something and make it recognisable .