

Year 3 Knowledge Organiser- Can you be a rock detective?

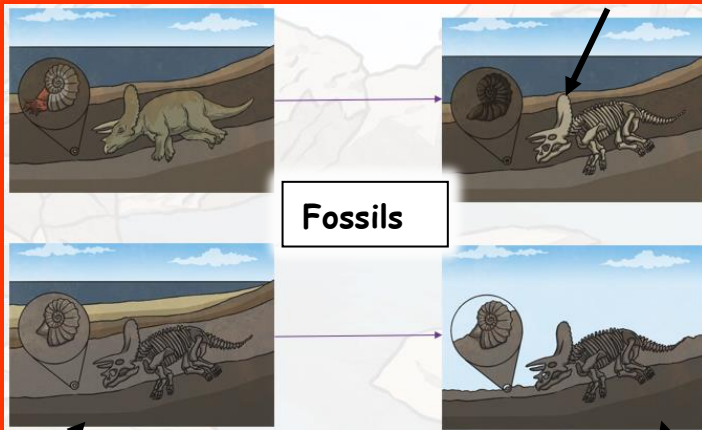
What will I learn?

In this topic we will learn:

- How to make compost
- Compare and **classify** rocks
- How **soil** is made
- What **fossils** are
- How **fossils** are made

1. An animal dies.

2. Rocks cover the animal.



3. Over millions of years, sedimentary rock covers the animal. This leaves an imprint.

4. When the rock is broken, the fossil is revealed.

Previous learning

Are these toys old or new?

Are you afraid of the Big Bad Wolf?

You should already know:

The difference between the object and the material from which it is made.

To name and group materials based on their properties.

How different materials can be used for different things

Vocabulary Dozen

classify	organise and place objects into different groups
compost	a mixture of leaves, vegetables or manure that is used to improve garden soil
decompose	to decay (rot)
fossil	the remains of animal or plant from a long time ago found in sedimentary rock
igneous	rock which is made when magma or lava cools down, it is full of crystals not fossils, e.g. granite
metamorphic	rocks that have been changed by heat or pressure e.g. slate or marble
organic	comes from a living matter and happens naturally
properties	a quality something is known by
sedimentary	a rock formed from water, wind or ice e.g. sandstone or limestone
soil	the top layer of the earth
volcano	an opening in the Earth's surface which allows gas, hot magma and ash to escape
worms	soft, long bodied invertebrates(without a backbone)

Key Knowledge

How can we compare and group rocks?

There are many different types of **rocks**, e.g. **limestone**, **sandstone** and **slate**.

We can compare and group them based on their **properties**, for example, what they look like and how they feel. Some **rocks** have things in common, for example, they may be hard. Some **rocks** have differences, for example, some are rough and some are smooth. These are ways we can compare and group them-we call this classifying.

How is soil made?

Soil is the top layer of the Earth. It is made of water, air, minerals and **organic** matter.

What are fossils?

A **fossil** is the remains (what is left) of something that was alive a long time ago. The remains could be the bones, shell or leaves of a plant or animal. The remains are found in **rocks**.

How are fossils made?

For a plant or animal to become a **fossil**, when it dies, **rocks** must cover it. Over millions of years, it becomes covered by layers of **sedimentary** rock. When that **rock** is broken, the **fossil** is revealed.

Useful links



<https://www.bbc.co.uk/bitesize/topics/z9bbkqt/articles/z2ym2p3>



<https://www.bbc.co.uk/bitesize/topics/zjty4wx/articles/ztvbk2p>



<https://www.bbc.co.uk/bitesize/topics/z9bbkqt/articles/z22g7p3>



<https://www.bbc.co.uk/bitesize/topics/z9bbkqt/articles>

How to make compost

