


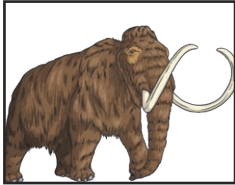








Key Vocabulary Overview	
<b>rock</b>	a naturally occurring material made up of minerals (solid pieces of non-living material)
<b>fossil</b>	the preserved remains or traces of a prehistoric living thing
<b>skeleton</b>	structures of bones or other substances that can provide protection, movement and support
<b>shell</b>	a protective, hard outer covering of some animals
<b>fossilisation</b>	the name given to the process that forms fossils
<b>sediment</b>	pieces of material (such as sand, mud or rock fragments) which can be carried by methods such as water and then deposited

**Fossils**

**Fossils** are preserved remains or traces of prehistoric living things. This includes animals (such as dinosaurs) but also plants and even microorganisms (tiny organisms). We usually find **fossils** in **rocks**.

**Types of Fossil**

Normally, it is the hard parts of animals (teeth, bones and **shells**) that are **fossilised**. However, other things can also be **fossilised**.

				
insect <b>fossilised</b> in amber	preserved woolly mammoth	<b>fossilised</b> ammonite <b>shell</b>	<b>fossilised</b> footprints	<b>fossilised</b> tooth
				
coprolite ( <b>fossilised</b> poo)	petrified ( <b>fossilised</b> ) tree trunk	a <b>fossil</b> of a microorganism (stromatolites)	a plant <b>fossil</b>	a <b>fossilised</b> fish

### Fossilisation

**Fossilisation** is a very rare occurrence that needs the right conditions and a lot of time to occur. Specimens are generally considered to be **fossils** if they are at least 10,000 years old.

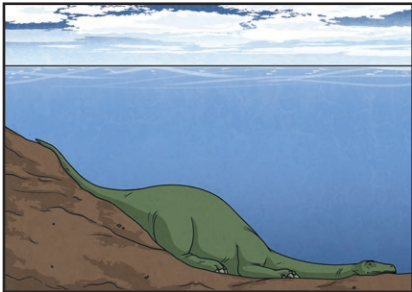
**Fossils** from marine environments are common as this type of environment provides appropriate conditions for **fossilisation**.

### Layers of Fossils

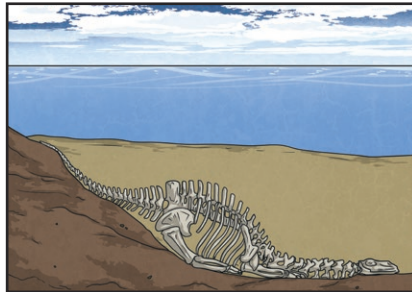
Due to the way the **rock fossils** are commonly found in layers over time, older **fossils** tend to be deeper underground.



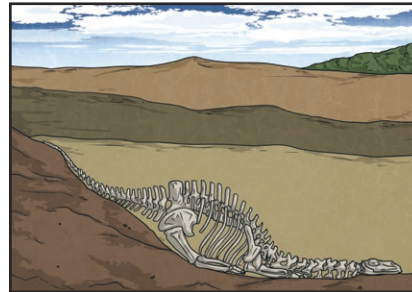
### The Fossilisation Process



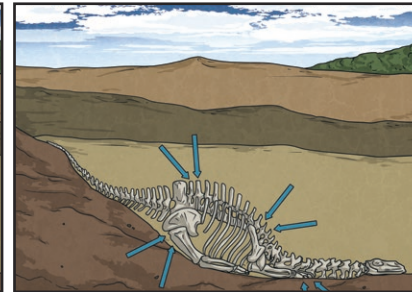
A living thing, such as an animal or plant, dies.



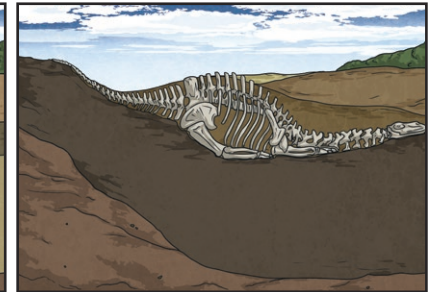
The remains are covered by **sediment**. Eventually, only the hard parts (such as bones) remain as the soft parts have decayed.



**Sediment** continues to build up in layers, placing pressure on the layers below and turning them into **rock**.



Water containing minerals enters the hard remains. The minerals replace the bone to form the **fossil**.



Over millions of years, the **rock** containing the **fossil** rises to the surface. A process called erosion can reveal the **fossil**.