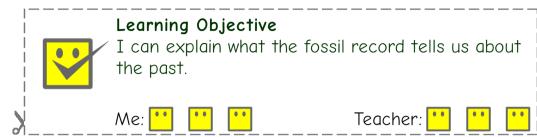
The fossil record

Outstanding Science Year 6 - Evolution and inheritance - OS6C002



Fossils are the remains of plants and animals which died millions of years ago. After death, their remains fell to the ground where they were covered by layers of material. Over a long period of time, these became **sedimentary rocks**, preserving the shape of the dead organism inside.

Fossils are useful because they tell us about organisms that lived in the past. The depth at which fossils are found can give us clues as to how old they are, as more recent sediment forms on top of older rocks. The older a fossil is, the deeper the rock layer in which it is found.

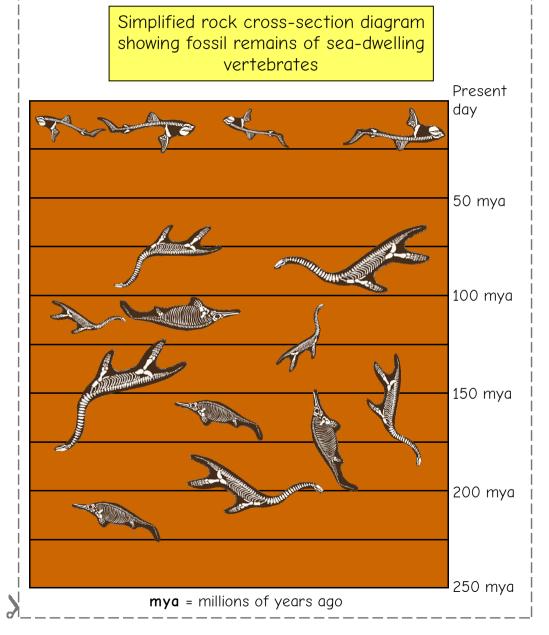
The fossil record is **incomplete**, for several reasons. Firstly, only a tiny fraction of organisms became fossils - most left no record at all. Secondly, only part of an organism (usually the bones and other hard tissues) is preserved in a fossil. **Palaeontologists** must work like detectives and use this incomplete evidence to build up a picture of the past.

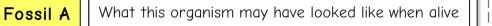
Activity

Use the simplified fossil record diagram on the right to find out information about the 3 different animals. Record your information on the following page.

National Curriculum Statutory Requirements

6C1 - recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago





First appearance in fossil record: ______ Last appearance in fossil record: ______ Existed for: _____



What this organism may have looked like when alive

First appearance in fossil record: ______ Last appearance in fossil record: ______ Existed for: ______ **Fossil C** What this organism may have looked like when alive



First appearance in fossil record: _____ Last appearance in fossil record: _____ Existed for: _____

Which organism lived closest to the present day?

Which two organisms existed at the same time?

Which organism went extinct first?

Why might these organisms have gone extinct?