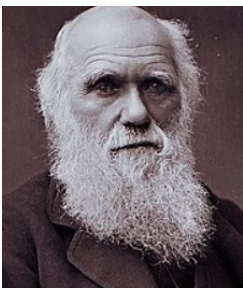


# Science Knowledge Organiser Evolution and inheritance (Term 4)

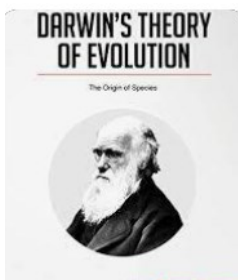
Year 5

## Our learning

In our science lessons this term, we are learning about evolution and inheritance. This is part of the **biology** aspect of science. Through our learning we will be considering the **connections** between the past and what we know now about animals. We will look at how species have changed and adapted over time as well as considering how natural selection impacts on different species.



Charles Darwin developed the theory of evolution which included ideas about natural selection. He showed that different species had changed over time to survive.



## Information

Natural selection means that organisms have adapted to make them better for the environment they live in.

Natural selection happens in both plants and animals.

We inherit features from our parents such as the way we look.

Adaptation is important for a species to survive.

To survive the winter, animals have a range of strategies: hibernation, adaptations to their bodies (growing a thicker coat) and migration.

Palaeontologists study fossilised things to learn about the past.

Fossils are the remains of plants and animals that lived long ago.



A fossil

The theory of evolution explains how primitive life forms have changed and adapted over millions of years to become the complex living organisms living on Earth today.

## As a scientist I will...

- Raise different scientific questions and hypotheses.
- Recognise how scientific ideas change over time

## Vocabulary

**Variation**- The differences in characteristics between individuals of the same species

**Inherit**- Receive through a parent's genes

**Evolution**- The theory that all the kinds of living things that exist today developed from earlier types

**Environment**- Everything around us

**Adapt**- To change

**Inhabit**- To live in

**Identical**- Exactly the same

**Genes**- Carry the information that determines your traits which are features or characteristics that are passed on to you

**Genetics**- The study of the way physical traits and characteristics get passed down from one generation to the next

**Survival**- The act of continuing to live

