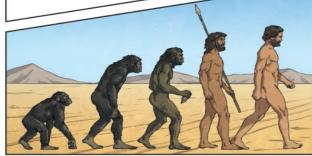
# **Evolution and Inheritance**

Evolution is the gradual process by which different kinds of living organism have developed from earlier forms over millions of years. Scientists have proof that living things are continuously evolving - even today!





**Inherited Traits** Eye colour is an example of an inherited trait. but so are things hair colour, like the shape of your earlobes and whether or not you can smell certain flowers.

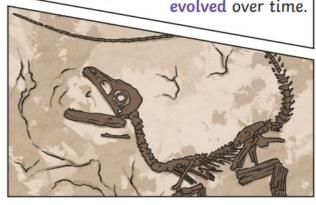
### Variation

Habitat

In the same way that there is variation between parents and their offspring, you can see variation within any species, even plants.



Fossils are the preserved remains, or partial remains, of ancient animals and plants. Fossils let scientists know how plants and animals used to look millions of years ago. This is proof that living things have evolved over time.



#### The Peppered



Peppered moths adapted their colouring overtime in order to camouflage and avoid predators. This sparked Darwin to come up with the theory of evolution.

#### organism. Environment Adapt Feature/ characteristic To be kept from harm or safe. Protection prey n animal that naturally preys on others. Predator How somethings looks. Appearance Differences between breeds and species Variation Children or the next generation of an animal Offspring Natural Selection

## How do features of living things help them adapt to

Living Things		Habitat		Adaptive Traits
polar bear		arctic		Its white fur enables it to camouflage in the snow.
camel		desert		It has wide feet to make it easier to walk in the sand.
cactus	¥	desert		It stores water in its stem.
toucan		rainforest		Its narrow tongue allows it to eat small fruit and insects.

#### Selective Breading in dogs-

Advantages	Disadvantages
You can select desirable traits for pets.	Offspring without desired traits may not be wanted.
You can create new fruits and vegeta- bles.	Genetic mutations can occur with nega tive effects for the animal.

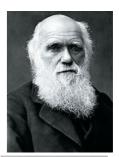
#### Key vocabulary

the natural home or environment of an animal, plant, or other

- The surrounding conditions in which a living thing lives.
- To change to become suitable for purpose.
- distinctive attribute or aspect of something.
- n animal that is hunted and killed by another for food.

- The process where offspring better adapted to their environment survive and go on to produce more offspring.







Charles Darwin and Alfred Wallace are two scientists who came up with the theory of natural selection and evolution around the same time.