

Science: Year 6

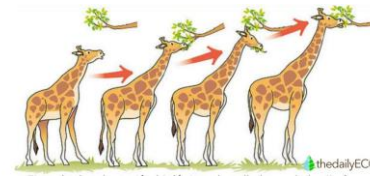
Core Knowledge

Evolution is where creatures change over time so that they can survive.

Evolution happens because of **Natural Selection**.

Natural selection is where species change because of their **environment** or because of competition with other creatures.

Living things are **adapted** to their habitats. This means that they have special features that help them to survive.



When living things reproduce, they pass on characteristics to their **offspring**. This is known as **inheritance**.

All living things produce offspring of the same kind, but normally offspring are not identical to their parents; there are **variations** that make them different.

Charles Darwin (1809 - 1882) was an English scientist who studied nature.

He is known for his Theory of Evolution by natural selection.

He believed all living things are struggling to survive. The living things that have the most helpful traits for their environment tend to survive.

Vocabulary

<p>Evolution the process by which living things can gradually change over time</p>	<p>Inheritance when a living thing reproduces and passes on genetic information to its offspring</p>	<p>Adaptation a trait which is changing to increase a species chance of survival</p>
<p>Environment the surroundings or conditions that a living organism finds themselves in</p>	<p>Habitat a natural environment that an animal lives in</p>	<p>Offspring the product of the reproductive processes of a person, animal, or plants</p>
<p>Palaeontologist a person who studies plants and animals that lived millions of years ago</p>	<p>Variation the differences between individuals within a species</p>	<p>Characteristics the distinguishing features or qualities that are specific to a species</p>
<p>Fossil the remains or imprint of a prehistoric plant or animal embedded in rock and preserved</p>	<p>Adaptive Traits genetic features that help a living thing to survive</p>	<p>Inherited Traits the traits you get from your parents e.g. eye colour</p>

Quiz

1. Tell me two adaptations of a camel.
2. Why are advantageous characteristics more likely to be passed down?
3. What can we learn from fossils?
4. What is the difference between inherited and acquired characteristics?