

Year 6 Science Knowledge Organiser: Evolution & Inheritance

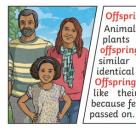


Subject Specific Skills

- I can recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
- I can recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
- I can identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

Prior Learning

- Pupils should have some knowledge of fossils and how they formed.
- Pupils may know that humans 'came from apes'.



Variation Offspring Animals In the same way and plants produce that there offspring that are variation between parents and their similar but not identical to them. offspring, Offspring often look can see variation within any species, like their parents because features are even plants.









Habitats A good habitat should provide helter, water,

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

Inherited Traits



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.

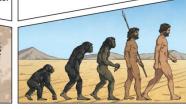


by Evolution is the gradual process by which different kinds of living organism have developed from earlier forms over millions of years. Scientists have proof that living things are continuously evolving - even today!

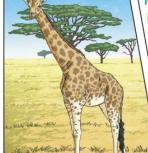
Key Individuals

Charles Darwin

Mary Anning



Natural Selection



Fossils of giraffes from millions of years ago show that they used to have shorter necks. They have gradually evolved through natural selection to have longer necks so that they can reach the top leaves on taller trees.

Key Vocabulary

Adaptation - An adaptation is a trait (or characteristic) changing to increase a living thing's chances of surviving and reproducing.

Characteristics - are passed from parents to their offspring. *Environment*- many habitats and areas where there are both living and non-living things. *Evolution* - The gradual change in living things over many generations, due to changes in inherited characteristics. *Fossils* - The remains or imprint of a prehistoric plant or animal,

embedded in rock and preserved.

Inherited - When a

characteristic that is passed down from parents to offspring through genes.

Offspring - Animals and plants produce offspring that are similar but not identical to them.

Sexual reproduction - a form of reproduction in which genetic material from two individuals of opposite sexes mixes to create offspring.

Species - a group of similar organisms that are able to reproduce Vary - changes within a species