Science Knowledge Organiser—Year 5/6 Cycle B

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inherit—when features are passed on from parents to offspring

Evolution and Inheritance





adaptation -

changes or special features of a living thing to help it live in a habitat



evolved —how living things gradually change over time



natural selection

— survival and reproduction of the fittest



ancestor — a person or living thing an organism is descended from



fossil—the remains or impression of a prehistoric animal or plant embedded in rock

Characteristics and Variation

A characteristic describes how something looks or how it behaves. Characteristics can be passed on from parents to their offspring, meaning that they can be inherited. They can include hair colour, eye colour and height. However, environmental factors are important too.





Charles Darwin, the Galapagos Islands and Human Evolution

Charles Darwin was a famous naturalist who studied finches and tortoises on the Galapagos Islands. He suggested that some species may share a common ancestor and evolve to suit their habitats. He called this process natural selection.

Australopithecus

Homo habilis
Homo erectus
Homo heidelbergensis/
neanderthalensis
Homo sapiens



Adaptations

Plants and animals have numerous adaptations which help them to survive in their habitats.

- Camels have humps to store food, two rows of eyelashes and small slits for nostrils
- Epiphytes are plants which can grow on the surface of another plant
- Some plants contain toxic minerals to protect themselves from predators
- Other plants can store water, trap insects and smother other plants



Fossils

Mary Anning was a palaeontologist who found and collected many fossils along the Jurassic Coast in Dorset. She was the first person to uncover a full ichthyosaurus skeleton.

