Key Vocabul	g			
offspring		The young animal or plant that is produced by the reproduction of that species.		
inheritance		This is when characteristics are passed on to offspring from their parents.		
variations		The differences between individuals within a species.		
characteristics		The distinguishing features or qualities that are specific to a species.		
adaptation		An adaptation is a trait (or characteristic) changing to increase a living thing's chances of surviving and reproducing.		
habitat		Refers to a specific area or place in which particular animals and plants can live.		
environment		An environment contains many habitats and includes areas where there are both living and non-living things.		
hominins	A group of primates which includes humans and recent ancestors of humans.			

Everything Changes Knowledge Organiser



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

Offspring often look like their parents because features are passed on.

Variation

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



Adaptive Traits

Characteristics that are influenced by the environment the living things live in. These adaptations can develop as a result of many things, such as food and climate.







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



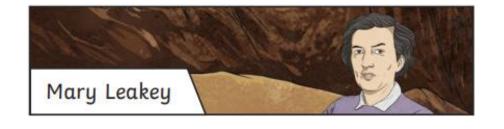
Key Individuals

Mary Leakey

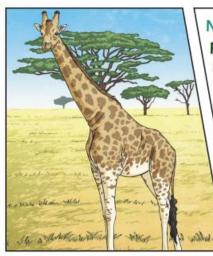
Mary Leakey discovered many fossils of early hominins and their tools. These fossils provide evidence for the evolution of humans.

Evidence from Fossils

The fossilised footprints that Leakey found in Tanzania were extremely important. They have been dated to 3.7 million years ago and show a link between the species that made the prints and their ancestors, who would have walked on all fours. Leakey's find proved that changes were occurring over time, thus proving human evolution.



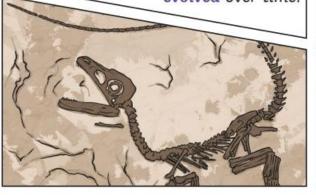
Key Vocabulary				
evolution	Adaptation over a very long time.			
natural selection	The process where organisms that are better adapted to their environment tend to survive and produce more offspring.			
fossil	The remains or imprint of a prehistoric plant or animal, embedded in rock and preserved.			
adaptive traits	Genetic features that help a living thing to survive.			
inherited traits	These are traits you get from your parents. Within a family, you will often see similar traits, e.g. curly hair.			



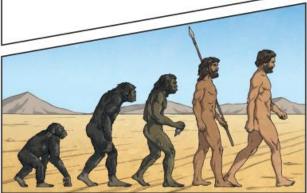
Natural Selection

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.

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.



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!



Living Things		Habitat		Adaptive Traits
polar bear		arctic		Its white fur enables it to camouflage in the snow.
camel		desert	P	It has wide feet to make it easier to walk in the sand.
cactus	8	desert		It stores water in its stem.
toucan	7	rainforest		Its narrow tongue allows it to eat small fruit and insects.