

Burwell Village College Primary

The Theory of Evolution

Key Vocabulary

adaptation	An adaptation is a trait (or characteristic) changing		
	to increase a living thing's chances of surviving and		
	reproducing.		
evolution	adaptation over a very long time		
natural selection	Natural selections is the process where organisms that		
	are better adapted to their environment tend to sur-		
	vive and produce more offspring.		
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, i.e. blue eyes,		
	freckles and dimples.		
offspring	Offspring are the young animals or plants that are		
	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 spe-		
	cific to a species		
fossil	the remains or imprint of a prehistoric plant or ani-		
	mal, embedded in rock and preserved		
habitat	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		

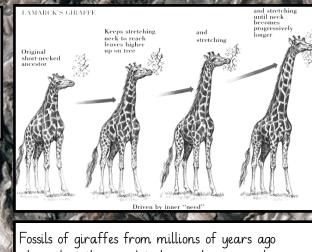
Natural Selection

Natural selection is the process through which spe-

to speciation, where one species gives rise to a new and distinctly different species. It is one of the processes that drives evolution and helps to explain

cies adapt to their environments. It can lead

the diversity of life on Earth.



Fossils of giraftes 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

Fossils are the preserved remains, or partial remains, of ancient animals and plants. They are not the bones of ancient animals. Fossils let scientists know how plants and animals used to look millions of years ago. This is proof that living things have evolved.





Burwell Village College Primary

Inherited Traits

Inherited traits (qualities owned by a person) are liked to genetics - you inherited traits from your parents. These traits are passed from generation to generation.

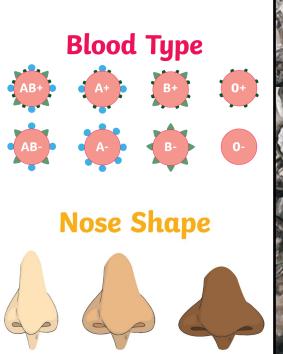
Eye Colour











Adaptive Traits

Over many generations, a species will adapt to its environment to ensure that they can survive. Animals with the most successful characteristics are more likely to thrive and will then pass these adaptive characteristics onto their offspring to ensure their success too.

Although scientists discussed adaptation prior to the 1800s, it was not until then that Charles Darwin developed the theory of natural selection.

0	A ADD		6/104 11 50 12	STATUS MALL ROOM
下して	Living Things		Habitat	Adaptive Traits
D N DIAN	polar bear		Artic	lts white fur enables it to camouflage in the snow.
していていていてい	camel		desert	It has wide feet to make it easier to walk in the sand.
A State I	cactus	X	desert	lt stores wa- ter in its stem.
	toucan	7	rainforest	lts narrow tongue allows it to eat small fruit and insects.

Evolution and Inheritance



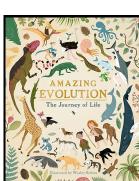
Charles Darwin (1809-1882) Biologist, Geologist and Naturalist

Charles Darwin

Charles Robert Darwin who provided scientific evidence that all species of life have evolved over time - he called this process natural selection. Whilst voyaging around South America, Darwin visited the Galapagos Islands and discovered the Galapagos finches. The finches on each island showed variations in their overall size, beak shape and claw size—these variations all linked to the variation of food sources which were available on the different islands.









Burwell Village College Primary

6 Figure Grid References

A grid of squares helps the map-reader to locate a place. The vertical lines are called eastings. They are numbered - the numbers increase as you move to the east. The horizontal lines are called northings as the numbers increase in an northerly direction

When you give a grid reference, always give the easting first. We often say, "Along the corridor and up the stairs," to help us to remember which direction to travel first.

Sometimes it is necessary to be even more accurate. In this case you can imagine that each grid is divided into 100 tiny squares. The distance between one grid line and the next is divided into tenths. This then changes the grid reference from 4 to 6 figures.

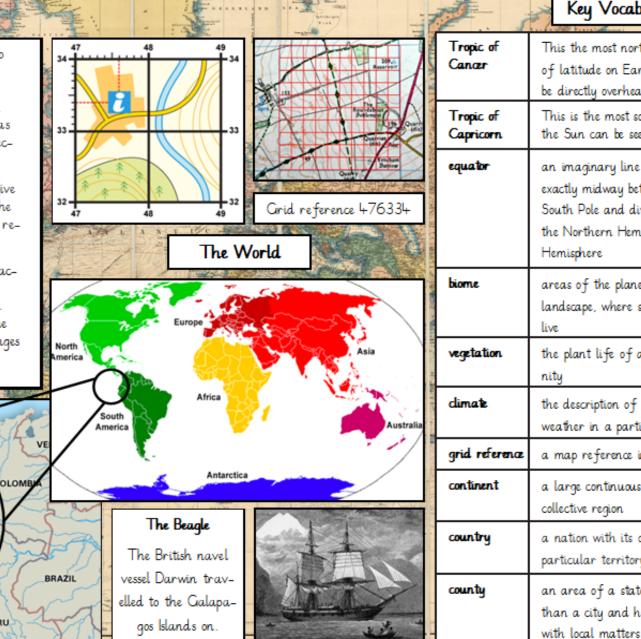
> Quito ECUADOR

> > PERU

PAC

Galapagos

Islands



Darwin's Voyage

Key Vocabulary

	tride shall be the ball		
Tropic of Canzer	This the most northerly circle of latitude on Earth at which the Sun can be directly overhead.		
Tropic of Capricorn	This is the most southern circle of latitude where the Sun can be seen directly overhead.		
equator	an imaginary line around the Earth that goes exactly midway between the North Pole and the South Pole and divides it into two equal halves, the Northern Hemisphere and the Southern Hemisphere		
biorne	areas of the planet with a similar climate and landscape, where similar animals and plants live		
vegetation	the plant life of a region or the plant commu- nity		
dimate	the description of the long-term pattern of weather in a particular area		
grid reference	a map reference indicating a location		
continent	ent a large continuous mass of land regarded as a collective region		
country	a nation with its own government, occupying a particular territory		
county	an area of a state or country that is larger than a city and has its own government to deal		