

St White's Primary School - Science

Years 5 and 6

Topic: Evolution and Inheritance

tongue are examples.



environments.

Read of the second	Tears 5 and	0	Topic. Evoluti		entance	
What should I already know?		Human intervention		Technical vocabulary		
 Parents produce offspringthrough reproduction. Mary Anning (21 May 1799 – 9 March 1847) was an English fossil collector, dealer, and palaeontologist who became known around the world for important finds she made in Jurassic marine fossil beds in the cliffs along the English Channel at Lyme Regis in the county of Dorsetin Southwest England. How fossils are formed when things that have lived are trapped in rock. The Industrial Revolution took place in the 18th- 19th centuries 		characteristics. This results in new		characteristic	The distinguishing features or qualities that are specific to the species.	
				inherited	This is when characteristics are passed on to offspring from their parents.	
				environmental	Relating to a living thing's surroundings.	
				variation	The differences between individuals within a species.	
Adaptation	Adaptation		are bred in order to combine particular characteristics from		The young animal or plant that is produced by the reproduction of that species.	
Foxes are adapted to live in different characteristics that have changed inclusion.		each parent		adaption	An adaption is a characteristic changing to increase a living thing's changes of surviving and reproducing.	
colour and fur length.The peppered moth adapted to change	century. ountains, forests and		Values	habitat	A spe <mark>c</mark> ific area of place in which p	particular animals or plants can live.
 century and changed back in the 20th Environments include tundra, alpine r 		Challenge	What challenges do particular characteristics helps us to overcome?	environment	An environment contains many habitats and includes areas where there are both living and non-living things.	
 desert. Cacti - stems that can store water; a wide 		572 0		evolution	Ada <mark>pti</mark> on over a very long time	
system so that can collect water from instead of leaves reducing water loss	a large area; spines and protecting them from	Commit	Commit How did Wallace and Darwin commit to their work?		The process where organisms that are better adapted to their environment tend to survive and produce more offspring	
 animals that might want to eat them! Camels - a double row of long eyelashes; nostrils which can close; store of fat in hump; long strong legs; thick leathery pads on flat, wide feet and on knees; thick fur to keep them warm during cold, desert nights. Adaptations can be positive, negative or neutral. 		Conquer	How do living things conquer the challenges of surviving? How do we celebrate the work of pioneers?	fossil	The remains or imprint of a prehistoric plant or animal, embedded in rock and preserved.	
				adaptive traits	Genetic features that help a living things to survive.	
				suitable	Right or appropriate for a purpose	
			the work of pioneers:	cladogram	A diagram used to show relations among organisms	
Theories of evolution			theory	A system of ideas to explain something		
Charles Darwin (12/2/1809 – 19/2/1882) Alfred Walla		Wallace (8/1/	/allace (8/1/1823 – 7/11/1913)		A view not necessarily based on factor knowledge	
English born evolutionary biologist, naturalist and geologist who British naturalist, explorer, geographer,				Darwin		
was best known for his contributions to the science of evolution. He first formulated his theory in his book "On the Origin of Species" in 1859. Darwin used fossils to support his theory of evolution.			ndependently thinking	 Darwin discovered the finches on the Galapagos Island in 1835 had different beaks. Different beaks are adapted to pick up different foods. 		
Offspring	Variation	Adaptive tra	its Inheri	ted traits	Habitats	Environments
Animals and plants produce offspring In the same that are similar but not identical to them. Offspring often look like their parents because features are passed sp	nals live in. parents e.g. eye velop as a skin colour, whe	cteristics from your colour, hair colour, ether your ear lobes d if you can roll your	A good habitat should provide shelter, water, enough space and plenty of food.	There are many different types of environment around the world. Polar regions, deserts, rainforests, oceans, rivers, and grasslands are all		

climate. Examples include scars,

language spoken, sporting ability.