Hyde Park Junior School - Science

Topic: Evolution and Inheritance

Year: 6

Strand: Biology

Enquiry Question: What is the difference between adaptation and evolution?



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 Evolution is the gradual process by partial remains, of ancient animals which different kinds of living organism and plants. Fossils let scientists to look millions of years ago. This is proof that living things have evolving - even today! evolved over time.



have developed from earlier forms over know how plants and animals used millions of years. Scientists have proof that living things are continuously





Offspring 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.





Habitats A good habitat should provide water. shelter, enough space and plenty of food.



Inherited Traits 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.



Key Vocabulary			
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 of 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.		
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.		

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Start of unit:	End of unit:		Start of unit:	End of unit:		
		What fossil did Mary Anning				
		find?				
		Why wasn't she taken				
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		Why is it struggling to adapt to its environment now?)			
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