Darwin's Discoveries - Year 6 - Spring 1

Super Scientist!

Charles Darwin was an English Naturalist born on February 12, 1809 in Shrewsbury, England. He is best known for developing a theory of evolution to explain biological change. He went on a voyage to study animals on the Galapagos Islands. On his voyage, Darwin studied tortoises. He noticed that each island had a different species of tortoise. He also studied finches. Each island had a different species of finch. He wrote many books about his voyage, Journal of Researches, Coral Reefs, Volcanic Islands and Geographical Observations on South America.



Inheritance

When parents have **offspring**, they pass on their **physical traits**. The offspring inherit their parents' **qualities**. This means that most **offspring look like their parents** but they are not identical. The offspring may take characteristics from the father, the mother or a mixture of both.

Traits you can inherit	Traits you can't inherit
eye/hair/skin colourshape of nosesize of feetheight	a good singing voice ability to play football drawing skills











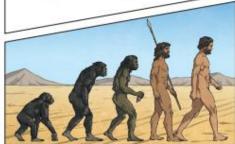


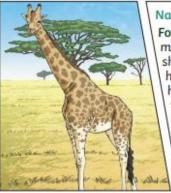
The Beckham Family

The children have inherited certain traits from their parents but they cannot inherit Victoria's singing ability or David's football skills. 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!





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.

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Adaptation

Adaptation is when a plant or animal has changed in some way, over a long period of time, to be better suited to the **environment** in which they live.

Camels have long eyelashes to protect their eyes from the sand.

They also have large, wide, flat feet to help them walk on the sand without sinking.





Cacti grow in the desert which is hot and sandy.

- They have spines instead of leaves to protect them from being eaten by predators.
- They have a thick, waxy skin which helps reduce the amount of water they lose.
- They have shallow, widespread roots which allows fast absorption of water when it rains.
- They have large, thick stems which allow them to store water until they need it.

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



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.





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.



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.



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

Habitats





