



Year 6: Evolution and Inheritance Knowledge Organiser

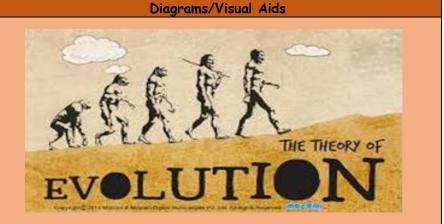
Key People/Scientists	
Mary Anning (1799-1847) A pioneering palaeontologist and fossil collector who made some of the most significant geological finds of all time.	
Charles Darwin (1809-1882) Famous for his work on natural selection, the idea that all species of life have evolved over time from common ancestors.	
Alfred Wallace (1823-1913) A British naturalist, explorer, biologist and social activist who is best known for proposing a theory of natural selection.	

Key Questions	
How have living	Living things gradually change over many
things on earth	generations in a process called evolution . Evolution
changed over	ensures that organisms are fully adapted to their
time?	surroundings, and gives rise to new species, as well
	as making others extinct. The driving force for
	evolution is natural selection .
Why do animals	Adaptation is a way an animal's body helps it
adapt to their	survive, or live, in its environment. Camels have
environment?	learned to adapt (or change) so that they can
	survive. Animals depend on their physical features
	to help them obtain food, keep safe, build homes,
	withstand weather, and attract mates.
How do we get	Characteristics are passed from parents to their
our	offspring. This is the same for animals, although
characteristics?	variation in offspring over time can make animals
	more or less able to survive in particular
	environments.
What is DNA?	DNA is information in our body that our body uses
	to build cells.

Misconceptions/Key facts Misconception: Evolution claims that we evolved from monkeys. Fact: Evolution predicts that all life on the planet is related. That is to say that if you go back enough generations, you'll come to a common ancestor for any two life forms. For humans and chimpanzees, the best evidence strongly suggests that the line leading to humans diverged

from the line leading to chimpanzees six

or seven million years ago.



Key Vocabulary	
adaptation	The process of change by which an organism or species becomes better suited to its environment.
evolution	The process by which different kinds of living organism are believed to have developed from earlier forms during the history of the earth.
extinct	No longer in existence.
fossils	The remains or impression of a prehistoric plant or animal embedded in rock and preserved in petrified form.
maladaptation	Failure to adjust adequately or appropriately to the environment or situation.
natural selection	The process whereby organisms better adapted to their environment tend to survive and produce more offspring.
palaeontologist	A person who studies of fossils to determine the structure and evolution of extinct animals and plants.

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