



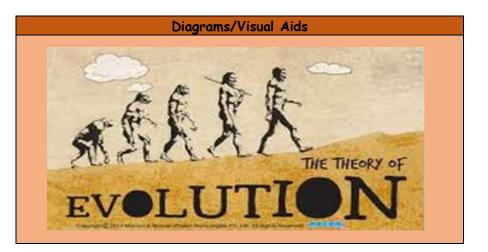
## **Year 6: Evolution and Inheritance Knowledge Organiser**

Key People/Scientists		
	Mary Anning	
4	(1799-1847)	
	A pioneering palaeontologist	
	and fossil collector who made	
	some of the most significant	
	geological finds of all time.	
	Charles Darwin	
	(1809-1882)	
1	Famous for his work on	
1	natural selection, the idea	
	that all species of life have	
3	evolved over time from	
	common ancestors.	
6	Alfred Wallace	
	(1823-1913)	
	A British naturalist,	
45	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 <b>evolution</b> . 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 <b>natural selection</b> .	
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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