Year 6 Evolution and Inheritance					
National Curriculum Objectives:			Killer Facts:		
ST MICHAEUS - recognise	that living things have changed over time	e and that fossils provide	- Lifecycles have evolved to help organisms survive into		
47 A information about living things that inhabited the Earth millions of years ago			adulthood.		
- recognise that living things produce offspring of the same kind, but normally			- Over time, characteristics that are most suited to the		
offspring vary and are not identical to their parents			environment become increasingly common		
- identify he	ow animals and plants are adapted to sui	 Survival of the fittest meant that the strongest of the species 			
ways and	survived and reproduced whereas the	a weaker died			
		Organisms best suited to their environment are most likely			
Building on what they learned about fossils in	the topic on rocks in year 3, pupils should find out	- Organisms best suited to their enviro	inment are most likely		
have changed over time. They should be intro	duced to the idea that characteristics are passed fr	to survive.			
instance by considering different breeds of dogs, and what happens when, for example, labradors are crossed with poodles. They should			- Offspring have similar patterns to their parents.		
example by exploring how giraffes' necks got	longer, or the development of insulating fur on the	arctic fox Pupils might find out about	- Variation exists within a population.		
the work of palaeontologists such as Mary An	ning and about how Charles Darwin and Alfred Wal	lace developed their ideas on evolution.	- Competition exists for food, resources and mates.		
Note: At this stage, pupils are not expected to	understand how genes and chromosomes work.				
Prior Learning	What is evolution?	What is variation?	Why do we adapt?	Key Vocabulary	
Year 6 Living Things and their	Over millions of years, many animals	Children are to consider a family –	Know how plants and animals are specially	habitat*	
Habitats:	have become extinct and we only	use images – can they identify the	adapted to suit their environments, e.g.	characteristics*	
 describe how living things 	have fossils to help us prove this.	similarities and differences betwee	n the Arctic Fox, Giraffe or Camel.	reproduction*	
are classified into broad	Create a large time line in the	the parents and offspring? This car		fossils*	
groups according to	classroom spanning a billion years.	be done with a range of living	A polar bears habitat is rapidly changing.	skeleton*	
common observable	Add on key points – appearance of	things. Can children identify the	What possible future could they face and	sedimentary*	
characteristics and based	life, plants, dinosaurs, extinction,	offspring of 2 different breeds of	which are most likely?	offspring*	
on similarities and	humans etc. Give children the task of	dog? Which is similar? What is		organisms	
differences, including	tracking an animal's evolution over	different?	Match animals to their environments	adaption	
micro-organisms, plants	time and add this to the timeline.		based on observable adaptions.	evolution	
and animals		Discuss and sort different	Darwin – why did birds beaks evolve and	variation	
- give reasons for classifying	Compare and contrast images of the	characteristics of humans – are the	adapt? Children to pick up a range of foods	breed	
plants and animals based	human skull overtime – what do they	inherited or environmental traits?	using tweezers, spoons, pins etc.	palaeontologists	
on specific characteristics	notice? Can they order images in			Darwin	
Mana 2 Dealer tealer to a Facette	chronological order?		Consider the evolution of the Peppered	genetics	
Year 3 Rocks Including Fossils:	the second the shelp the second flavor and		Moth (linked to text). Can children explain	survival of the fittest	
- describe in simple terms	How are the skeletons of humans,		why it changed over time? Give children a		
now lossils are formed	Neanderthais and apes different?		they predict the Deppered Meth would	Environmental traits	
lived are trapped within	Croate a bisquit cladegram to show		adapt2		
rock	how biscuits have evolved over time		auapur		
	and how we record those changes		Create a creature that is well adapted to a		
			narticular environment. Can they evolute		
			their choices using scientific vessbulary?		
				*prior learning	
In KS3:	1	1		F.101 10011110	

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Year Group	Common Misconceptions	Recommended Linked Texts for Evolution and Inheritance
Year 6	 adaptation occurs during an animal's lifetime: giraffes' necks stretch during their lifetime to reach higher leaves and animals living in cold environments grow thick fur during their life offspring most resemble their parents of the same sex, so that sons look like fathers all characteristics, including those that are due to actions during the parent's life such as dyed hair or footballing skills, can be inherited cavemen and dinosaurs were alive at the same time 	Moth: An Evolution Story by Isabel Thomas When the Whales Walked by Dougal Dixon On the Origin of Species by Sabina Radeva