Boarshaw Community Primary School - Science				
Year 6 Science: Evolution and Inheritance				
Previous knowledge: What should I already know? Key scientist: Charles Darwin				
• There are 7 characteristics of life (MRS GREN): movement, respiration, sensitivity, growth, reproduction, exception and nutrition.		Charles Darwin studied different animal and plant species, which allowed him to see how adaptations could come about. He is famous		
 Animals, including humans, need the right types and amount of nutrition. 		for the book 'On the origin of species.		
 Recognise that environments can change and that this can sometimes pose dangers to living things. Understand the roles of producers, predators and prey in a food chain. 				
 Animals hat The life cyc How fossils 	ave offspring which grow into adults. cle of some animals and plants s are formed when things that were been trapped in rock.	5	A ARRA	
	Key facts / info	ormation		
What is evolution?	• Evolution is a process of change that takes place over many generations. Species of animals, plants, or insects slowly change some of their physical characteristics.	What is adaptation?	 Adaptation is when animals and plants have evolved so that they have adapted to survive in their environments. 	
	 It occurs when there is competition to survive. This is called natural selection. Difference within a species (for example between parents and 		• Some environments are challenging, but animals and plants have adapted to survive there.	
	 offspring) can be caused by inheritance and mutations. Inheritance is when characteristics are passed on from generation to the 		 Sometimes adaptations can be disadvantageous. For example: light v dark coloured wings in peppered moths. If an environment 	
	 next. Mutations in characteristics are not inherited from the parents and appear as new characteristics. 		changes it can alter whether or not an adaptation is useful.	
	Key Knowledge: What I should k			
 Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Who Charles Darwin was and why his work is important. Understand that living things produce offspring of the same kind. Normally offspring vary and are not identical to their parents. Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. 				
Key vocabulary				
ancestor	a change that improves the chance of survival for an animal or plant an early type of animal or plant from which a later type has evolved y a wide variety of plant and animal species living in their natural environment	be al natural selec ar	characteristic you are born with ecause your parents or ancestors lso had it ection a process by which animals nd plants are best adapted to their nvironment survive. Those that	
	nt all the circumstances, people, things, and events around them that influence their ife	offspring an	re less well adapted die out n animal's young (a person's hild)	
evolution a	a process of change that takes place over many generations, to enable a plant or animal to survive better in their environment.	th reproduction pi si	the study of fossils as a guide to he history of life on Earth he when an animal or plant roduces one or more individuals milar to itself	
extinct r fossil t	no longer has any living members nard remains of a prehistoric animal or plant that are found nside a rock	m cł	class of plants or animals whose nembers have the same main haracteristics formal idea that is intended to	
		e	xplain something change or slight difference	
L		variation a	change of sight unreferice	

	Start of unit	End of unit
Question 1:		
What is a fossil? How are fossils formed (made)?		
Question 2:		
What does the word evolution		
mean?		
Question 3:		
What is a habitat?		
What does a habitat need to		
have?		
Question 4:		
What do plants need to survive?		
Question 5:	1.	1.
What 7 things can all living things do?	2.	2.
	3.	3.
	4.	4.
	5.	5.
	6.	6.
	7.	7.
Question 6:		
What does offspring mean?		
• • •		
Question 7: How has a polar bear adapted		
to suit its' environment?		