Lunt's Heath Primary School - Knowledge Organiser				
Science Focus	Evolution and	Year 6	Autumn 2 nd Half Term	
	Inheritance		·	

What? (Key Knowledge) Evolution			
evolution?			
Do things	 We know that living things used to look a lot different to how they 		
evolve?	do now. We know this because fossils have been found that show		
	creatures that look a lot different to how they do today.		
	 Fossils show us that living things have changed over time. 		
So how do	A famous scientist, Charles Darwin observed that although		
things	individuals in a species shared similarities, they were not exact		
evolve?	copies of each other		
	He noticed that there were small differences or variations between		
	them.		
	He also noticed that everything in the natural world was in		
	competition.		
	The winners were those that had characteristics which made them		
	better adapted for survival. For example, they were stronger, faster,		
	cleverer or more attractive than others in their species.		
	These living things were more likely to reproduce and pass on		
	their useful characteristics to their offspring.		
	Individuals that were poorly adapted were less likely to survive		
	and their characteristics were not as likely to be inherited.		
	Over time, the characteristics that help survival become more		
	common and a species gradually changes		
	• Given enough time, these small changes can add up to the extent		
	that a new species altogether can evolve.		
	Variation		
What's the	 Living things produce offspring of the same kind. For example, owls 		
important	produce baby owls and humans produce baby humans BUT		
thing to	Normally offspring vary and are not identical to their parents.		
know?			
So what?	 Natural variation like this can lead to offspring being more likely or 		
	less likely to survive in their environment.		
	 If the variant makes them more likely to survive, they are more 		
	likely to be alive to pass this variant to their offspring.		
	 As a result, this variant is more likely to become more common in 		
	this species		
	Adaptation		
What is	 Adaption is when things evolve to overcome challenges in their 		
adaption?	environment. For example by adapting their behaviour.		
Examples of	Migration		
adaptation	Birds have adapted to move around the world to find weather and		
'	food sources to suit them.		
	Birds that didn't do this may have run out of food and died.		
	Sticking together in packs		
	Animals that learned to live in packs were more likely to be safer		
	and more successful when hunting, leading them to be more likely to		
	and more successful unen nunung, leading them to be more tikely to survive.		
	Sui vove		
	Possible, Experiences		

Possible Experiences

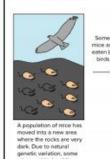
Investigate the work of renowned palaeontologists such as Mary Anning and how Charles Darwin and Alfred Wallace developed their ideas on evolution.

• Identify examples of how animals have adapted to their environments.

What? (Key Vocabulary)			
Spelling	Definition/Sentence		
Fossils	A fossil is the naturally preserved remains or		
	traces of animals or plants that lived in the		
	geologic past		
Variations	Small differences		
Reproduce	To produce again/give birth		
Offspring	Children or young		
Migration	Seasonal movement of animals from one		
	location to another		

Diagrams and Symbols How variation can impact on evolution

Because the hawks can see and catch the tan mice more easily, a relatively large fraction of the tan mice are eaten, while a much smaller fraction of the black mice are eaten. If we look at the ratio of black mice to tan mice in the surviving ("not-eaten") group, it will be higher than in the starting population.





Because block mice had a higher chance of lender, offspring than tan mice,

Tan mice are more visible to predetory birds than black mice. Thus, fan mice are eaten at higher frequency than black mice. New the surviving mice reach respreductive age and leave offspring.

Because black mice had a higher chance of leaving offspring than tan mice, the next generation contains a higher fraction of black mice than the previous generation.

