Uplands Manor Primary School - Science Unit Organiser

Science Topic:		Living Things an Habitat	nd Their s	r		Yea	r 2		
What? (Key Vocabulary)				What? (Key Knowledge)					
Spelling	Definition/Sentence			Is it alive?					
Cells	The basic part of all living things			Things can be split into			Things that are alive		
				three groups:		Things that were alive but are now dead Things that have never lived			
Underside	Underneath or bottom of something			This set that a set off			Are made from cells and show signs of life (see		
Webbed	Where fingers or toes are connected by skin			Things that are alive		below)			
Excess	More than is needed			Things that are dead		Are made from cells			
Environment	The conditions around something			Things that never lived		A wooden table used to be allve as a tree These are not made from colls			
						 For example, a drain cover is made from particles 			
Diagrams and Symbols						of metal			
Animals get th	neir food fro	m plants and other anim	nals. A	How to tell if it is alive. Living things can:					
food chain shows how energy from food is passed along. Only green plants make their own food, so every food chain starts with a green plant.				Move		 For example, animals can run, birds can fly and flowers turn towards light 			
				Reproduce			• This is when living things have offspring		
$Grass \longrightarrow Grasshopper \longrightarrow Mouse \longrightarrow Owl$ Here the Grass has made its own food. The grasshopper gets energy by eating the grass. The mouse gets energy						 For example, animals have babies and plants have seeds which turn into new plants 			
							This is where food is used to provide energy		
				Nutrition		• For example, humans get energy from food Animals eat plants or other animals			
						Green plants make their own food			
				Growth		• This is who	en thin	gs get bigger/older	
by eating the grasshopper and the owl gets its energy by						• For example, babies grow into adults			
eating the mouse.						Seedlings grow into bigger plants			
The arrow on a food chain means 'is food for'				Habitats					
If one element of the food chain changes, this can impact on the rest of the chain. For example: If a disease killed all of the grasshoppers				What is a habitat?			Most living things live in an environment they are suited to. This is their babitat		
				Types of habitats		Habitats can b	e verv	different. For example they can	
 The grass might grow a lot more as grasshoppers wouldn't be eating it 						 be: Hot or cold 			
 Mice would have to find something else to eat (like corn) 						Wet or dry			
which would reduce the amount of corn in fields						• On the ground or up high			
• Pigeons may suffer as there is less corn available to eat						Animals live in habitats that suit them best.			
Recommended Experiments				Choosing the right habitat		• For example, a fish can breathe in water and can			
						 A worm has brown skin, bristles on its underside 			
A minimum of two experiments should take place during this unit of work with one final written outcome						to grip and a pointed head (all of these mean that the soil is a good habitat for it to live in)			
linked to one of the scientific enquiry skills and				Examples of a			nimals and plants in their habitats		
approaches used.				Cold habitat		Polar bear - thick white fur, to keep warm and camouflaged in the spow.			
as hedgerows and trees) - investigate micro-habitats				Hot habitat		 The desert rat - large ears to help lose excess body heat, good hearing and sight in the dark so can hunt at night when the temperature is cooler 			
such as under stones and under logs									
chambe	chambers'								
Construe animals	ucting food chains using given plants and s and explain reasoning for the order				Dry habitat		The cactus - long roots find water that is deep in the ground, thin needle leaves don't lose water		
Investigate the food	ating the ran d chain die ou	g the range of impacts should one aspect of ain die out			Wet habitat		 Ine otter - eyes and nostrils can close underwater, feet are webbed to help move in the water 		
Builds on to	arning in V				اممط	to: loarni	nain	Voar 2 _ Autumn 2	
Unit: Animals, including humans and Plants				rning links Unit		Unit:	as to: learning in Year 3 - Autumn 2 - t: Living Things and Their Habitats		