Uplands Manor Primary School - Science Unit Organiser

Science To	pic:	Living Things and Their	habitats	Y	'ear 4			
What? (Key Vocabulary)			What? (Key Knowledge)					
Spelling	Definition/Sentence			Grouping living things				
Gills	Slits on the side of a fish to help it breathe			Animals can be put into one of two groups Vertebrates or invertebrates				
Fins	Part of a fish that helps it move and balance							
Scales	Thin plates protecting the skin of fish or reptiles		Vertebra	ates	Are animals with a backbone			
Lungs	Spongy bags in the chest used when breathing			There are 5 ways Vertebrates can be grouped		Fish, amphibians, reptiles, birds and mammals		
Body Temperature	How hot or cold the inside of an animals body is							
Section	A part o	A part of something			How to spot a Fish		 Breathes with gills/lays eggs in water/has fins and scales/its body temperature changes 	
Deciduous		A tree that loses its leaves in Autumn and grows new ones in Spring		How to sp Amphib		 Born with gills then develops lungs/lays eggs in water/damp skin/body temperature changes 		
Coniferous	A plant o	A plant or tree that keeps its leaves all year A small plant that is found in water		How to spot a	a Reptile	Breathes with lungs/lays eggs on land/dry scaly skin/body temperature changes		
(Evergreen) Algae	A small			How to spot a Bird		 Breathes with lungs/lays eggs with hard shells/has feathers/steady body temperature 		
	(It has no stems, roots or leaves) Diagrams and Symbols			 Breathes with lungs/babies are born liv body hair or fur/steady body temperature/feeds babies milk 				
				Invertebrates				
Sheep Horse	Dog	Dog Frog Shark Swan Chicken Yes No Yes No Is it a mammal ? Does it have fins ? Do we eat it their eggs ? No Yes No		Invertebrates		Invertebrates are animals with no backbones		
Yes No Does it have wool ? Yes	ls it mamn			There are 3 ways • Insects Invertebrates can be grouped • Arachnids • Molluscs • 3 body sections/6 legs				
Do they Does it spend most			How to spot an Arachnid • 2 body sections/8 legs How to spot a Mollusc • Slimy foot/often have a shell					
have hooves?				How to spot a Mollusc Slimy foot/often have a shell Plant Groups				
Yes No Does it have			Plants can be put into one of two groups Flowering plants or non-flowering plants		ants or			
4 legs ?				Flowering Plants				
Recommended Experiments				Flowering plants are made of four groups		 Grasses/cereals/garden shrubs/deciduous trees (lose their leaves) 		
	Non-Flowering Plants							
A minimum of two experiments should take place during this unit of work with one final written outcome linked to the			Non-Flowering plants are made of three groups		 Algae/co 	niferous (evergreen) trees/ferns		
scientific enquiry skills and approaches used.				Changing Habitats				
Identifying and naming a variety of living things in the local (school) and wider environment				What is a h		•	nt or animals lives	
Exploring and using classification keys to help group, identify and name a variety of living things in their local and wider environment			How can habitats change?		weather and changing.	can change habitats with the I plant life in the habitat		
Decigning own keys and branch diagrams to identify animals					Humans can dropping litt	change habitats, for example by er or chopping down trees.		
and plants				Classifying Animals and Plants				
Creating an online database of animals and plants on the school site (invite other users of the school grounds to update with sightings)			How can we group?		Grouping things that are similar We can create branched diagrams to help us (see diagram)			
Builds on: learr Living Things an		ear 2 - Summer - Unit: Habitats	Learnii	ng links			ng in Year 5 - Autumn 2 gs and Their Habitats	