Fens Primary School Knowledge Organiser



	Science Focus:	Living things and th	heir habitats Year 4	Term: 1A		
	Grouping living things	All organis	ms are made up of one or more cells		Plant Groups	
Animals can be put into one of two groups	Vertebrates or Invertebrates	their c	Cells Organisms are organised as a result of their cells. Animals and plants have		Flowering plants or Non-Flowering plants	
Vertebrates		differe	different cells.		Flowering Plants	
Vertebrates	Are animals with a backbone Fish		Diagrams and Symbols	Flowering plants are made of four groups	 Grasses/Cereals/Garden Shrubs/ Deciduous Trees (Lose their leaves) 	
There are 5 ways Vertebrates can be	Amphibians Reptiles	Sheep Yes No	Dog Frog Shark Swan Chicken Out Yes No Yes No Yes No	Na Non-Flowering plants	n-Flowering Plants	
grouped	Birds Mammals	Does it have wool ?	Does it have is it a Does it have Do we eat it		Algae/Coniferous (Evergreen) Trees/ Ferns	
How to spot a Fish	 Breathes with gills/lays eggs in water/ has fin 	TS Yes	No Yes No	C What is a habitat?	hanging Habitats	
	and scales/its body temperature changes		Does it have hooves? Yes No Does it have 4 legs? What? (Key Vocabulary)		Where a plant or animals lives. The seasons can change habitats	
How to spot an Amphibian	 Born with gills then develops lungs/ lays egg in water/damp skin/body temperature changes 				with the weather and plant life in the habitat changing.	
How to spot a Reptile	 Breathes with lungs/lays eggs on land/ dry scaly skin/body temperature changes 				Humans can change habitats, for example by dropping litter or chop- ping down trees.	
How to spot a Bird	Breathes with lungs/lays eggs with hard	Cells	The basic part of all living things	Classifying Animals and Plants		
	shells/has feathers/steady body temperature	Gills	Slits on the side of a fish to help it breathe.	What is classifying?	Grouping things that are similar.	
How to spot a Mammal	Breathes with lungs/babies are born live/	Fins	Part of a fish that helps it move and balance.	How can we group?	We can create branched diagrams to help us. Have a look at the dia-	
	body hair or fur/steady body temperature/ feeds babies milk	Scales	Thin plates protecting the skin of fish or reptiles.		gram.	
Invertebrates		Lungs	Spongy bags in the chest used when breathing.	Working as a Scientist		
Invertebrates	Invertebrates are animals with no backbones.	Body Temperature	How hot or cold the inside of an animals body is.	 Locate a range of habitats on the school site. Classify the animals and plants on the school site. (Locate one type of each animal and plant) Design own keys and branch diagrams to identify animals and plants. Create an online database of animals and plants on the school site (Invite other users of the school grounds to update with sightings) = height? 		
There are 3 ways	Insects	Section	A part of something.			
Invertebrates can be grouped	Arachnids Molluscs	Deciduous	A tree that loses its leaves in Autumn and grows new ones in Spring.			
How to spot an Insect	• 3 body sections/6 legs	Coniferous				
How to spot an Arachnid	2 body sections/8 legs	(Evergreen)	A plant or tree that keeps its leaves all year. A small plant that is found in water. It has no			
How to spot a Mollusc	Slimy foot/Often have a shell	Algae	stems, roots or leaves.			