Aldbury Primary & Nursery Knowledge Organisers				
Science Unit: Living things and their habitats	Class 3	Year A Spring Term		
(classification)				

What should they already know?

From their 'Habitat's unit in Class 2, children should be able to:

- use keys to identify some animals and plants (with help)
- identify and name a variety of animals and plants in their habitats
- describe how animals obtain their food from plants and other animals using a simple food chain (e.g. grass – cow – human)
- · identify and name different sources of food
- describe how different habitats provide for the basic needs of different kinds of animals and plants

Key vocabulary from Class 2:

habitats, keys, habitat, food chain, eat, carnivore, herbivore, omnivore



Working Scientifically tasks that link to this unit: Year 4 — Living things and their habitats — troublesome animals How do I group an animal based on evidence? Why are some animals hard to classify?

	Key vocabulary
predator	An animal that hunts and eats other animals.
prey	An animal that gets hunted and eaten by another animal.
producer	A plant that produces its own food.
vegetation	All the plants or plant life in a particular place, taken as a whole.
shelter	A place that gives protection from bad weather and/or danger.
vertebrate	Vertebrates have a backbone inside their body. They include mammals, birds, fish, amphibians and reptiles.
invertebrate	An animal without a backbone. Some have soft bodies, like worms, slugs and jellyfish. Other invertebrates, like insects, spiders and crustaceans, have a heard outer casing that protects their body.
classify	to sort/group animals and plants into groups according to their similarities
flowering plant	Flowering plants grow flowers. They make up about 90% of all species of plants.
non-flowering plant	Non-flowering plants do not grow flowers.
mammals	warm-blooded; have hair/fur on bodies; give birth to live young; often drink milk from their mothers
reptiles	cold-blooded; normally lay eggs (but some don't); have scales
amphibians	cold-blooded; moist scaleless skin; lay eggs
fish	cold-blooded; can breathe underwater, using gills; lay eggs; have fins to help them propel through the water
birds	warm-blooded; have feathers, wings and beaks; lay eggs

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HFL ARE statements explained									
How do I construct and interpret food chains?	producers, prey recognise that a plants are the u	o be able to mal	ke their own for they should be always start of food for all a	pood chains. They be able to verbal with a green pl animals. The arr	y should be lly explain t ant (a prod ows show t	he food chaucer). They he flow of	ain. Children y should reco energy.	must be a	able to
How do I use classification keys to group, identify and name a variety of living things?	This needs to in use classification	ss (producer) - nclude plants and on keys to help g Children are no ing so.	d trees, not jure roup identify a	st animals. You and name a vari	can ety but	Yes Has it got wings? No Has it got more than eight legs?	Has the mini-beast got legs? Yes Is it active at night? Yes No	Has it got a she	Yes Souil
How can living things be grouped?	Children are required to group living things in a variety of different ways. GD statement – some animals are hard to classify. Children need to be able to explain why. • platypus – feed milk to their young, have fur and are warm blooded (like mammals) but lay eggs (like reptiles/amphibians/fish) • sharks – have gills/fins and are cold blooded (like fish) but most species of shark give birth to their live young (like mammals) flowering non-flowering vertebrates invertebrates fish mammals amphibians reptiles birds plants								
	sunflower daffodil orchid	fern moss algae	frog monkey dog	worm slug jellyfish	goldfish Blue Tang megalodon	humans elephants dog dolphin	frog newt salamander	lizard turtles snakes	parrots owls penguins

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How do the features of an animal help them to survive? (examples)	gills – fish have gills on the side of their body (instead of lungs) to help them breathe underwater	blubber – a thick layer of skin under marine mammals (seals, whales, walruses) keeps animals warm and store energy	camouflage — used to disguise their appearance/blend in with their surroundings and protect them from predators (e.g. screech owl, Mediterranean octopus, Goldenrod crab spider, leopard, mountain hare)
How do changes in the environment pose dangers to living things?	as well as negative effects. Chil This could include building hour name some dangers this poses everything they need (to breath Examples: Trees – torn down Less producers (green part Increased/decreased ranges from drinking water/groen Temperature changes (sometimes)	Idren should be able to identificing developments in fields, por for living things. Plants and an he, grow, eat, have babies, more plants) = less food for prey infall and floods/droughts can owing plants seasons) – some animals mights, storms, floods, droughts, w	mans. Changes to an environment can have positive by that humans can cause changes to environments. Collution, deforestation etc.). They should be able to nimals rely on the environment to give them ove, sense and go to the toilet). drown animals that can't swim or prevent animals not need to migrate or hibernate ildfires, the seasons ion, the introduction of a new animal/plant species

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Types of enquiry yo	ou could cover in this topic about classification
	 How does the [animal's] habitat change throughout the year? Are there more living things by our pond or the village pond?
Fatheriti produint	What is similar about amphibians? Fish? Reptiles? Mammals?
PROMETCH STATE OF THE	 Do all animals have the same hearing range? Why are people cutting down the rainforests and what effect does that have?
Sensitive Constitution of Sensitive Constitu	 Can we use classification keys to identify all the animals that we caught pond dipping? How can these flowers be grouped? How can these animals be grouped?

Book/writing links

BOOKS

The Hodgeheg by Dick King Smith

EXPLANATIONS

 Explain how humans damage the environment from the point of view of a hedgehog.

PERSUASION

- Persuade humans to take more care of the environment from the point of view of a hedgehog.
- Letter to the local MP about planting more trees, saving hedges, planting more wildflowers for bees etc.