Year 4 – Autumn 1 – All Living Things/Animals inc Humans (Food Chains)

National Curriculum / End Point Statement

All Living Things

- recognise that living things can be grouped in a variety of ways
- explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- recognise that environments can change and that this can sometimes pose dangers to living things.

Animals inc Humans

- construct and interpret a variety of food chains, identifying producers, predators and prey.
- Working Scientifically
- asking relevant questions and using different types of scientific enquiries to answer them
- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- identifying differences, similarities or changes related to simple scientific ideas and processes
- using straightforward scientific evidence to answer questions or to support their findings.

Step 1	Step 2	Step 3	Step 4 (TAPS)	Step 5	Step 6
Recap previous knowledge — Year 1 animals, year 2 habitats and food chains WALT recognise that living things can be grouped in different ways	WALT explore and use classification keys	WALT identify and name a variety of living things in the wider environment	WALT Gather, record and classify data	WALT recognise that environments can change	WALT construct and interpret a variety of food chains
In Focus -	In Focus -	In Focus -	In Focus - Can children group	In Focus -	In Focus -
https://explorify.uk/en/activities/	https://explorify.uk/en/activities/	https://explorify.uk/en/activities/	living things in different ways?	https://explorify.uk/en/activities/	https://explorify.uk/en/activities/
odd-one-out/living-moving	odd-one-out/legs-eleven	odd-one-out/wet-and-wild		what-if/we-did-not-plant-trees	whats-going-on/muddy-meal

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		Success	Criteria		
I know how to group living	I know what classification	I know what classification	I can use previous knowledge	I know how environments can	I know what a food chain is
things (mammals, birds, fish, reptiles, amphibians)	means	means	when working scientifically	change naturally e.g. storm	I can explain what producers,
I can give you some examples of vertebrates	I can use simple keys and guides to identify local plants and	I can research and group living things from the rainforest	I can group living things in different ways	I know how the changes can impact on living things	predators and prey are
I can name some examples of	animals		3		I can construct a variety of foo
invertebrates I can explain how I have		I can describe the similarities and differences of the living	I can explain how I have grouped living things	I know how humans can impact positively and negatively on the	chains based in different habita
grouped living things. I can group plants into		things		environment	
flowering and non-flowering groups					
groups		Suggested	d Outcome		
Children could match the animals to their animal group and label common features. They could then group the animals in different ways such as those with wings/no wings, legs/no legs etc. They record examples of groupings and explain their thinking.	Children classify animals in the local environment based on a classification system.	Children research animals and plants found in the rainforest and classify them into groups of their choice.	Children can identify animals and plants and that they can be classified in a number of possible ways including vertebrates and invertebrates/flowering and non-flowering plants etc.	Children could write a letter to the rest of the school highlighting an environmental issue and how humans have affected the environment. They could give solutions as to how humans can have a positive impact on the environment around them	Children construct food chains tha show producer, predator and prey The food chains can be from a range of habitats.

Vocabulary	NC links
Fern, moss, classification key, non-flowering plants, categorise, environment, nature reserve, ecology,	Animals including humans
pollution, litter, deforestation, deciduous, evergreen, vertebrate, invertebrate (slugs, snails, worms,	Year 1 seasonal changes Year 2 food chains and year 3 nutrition
spiders, insects)	Geography – biomes, rainforest deforestation, climate belts
food chain, prey, predator, producer	

Key Learning

Living things can be grouped (classified) in different ways according to their features. Classification keys can be used to identify and name living things.

Living things live in a habitat which provides an environment to which they are suited (Year 2 learning). These environments may change naturally e.g. through flooding, fire, earthquakes etc. Humans also cause the environment to change. This can be in a good way (i.e. positive human impact, such as setting up nature reserves) or in a bad way (i.e. negative human impact, such as littering). These environments also change with the seasons; different living things can be found in a habitat at different times of the year.

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Possible Evidence	Common Misconceptions
• Can name living things living in a range of habitats, giving the key features that helped them to	Some children may think:
identify them	• the death of one of the parts of a food chain or web has no or limited consequences on the rest of the
• Can give examples of how an environment may change both naturally and due to human impact	chain
• Can keep a careful record of living things found in different habitats throughout the year (diagrams,	• there is always plenty of food for wild animals
tally charts etc.)	animals are only land-living creatures
Can use classification keys to identify unknown plants and animals	• animals and plants can adapt to their habitats, however they change
• Can present their learning about changes to the environment in different ways e.g. campaign video,	• all changes to habitats are negative.
persuasive letter	
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Notable Scientists

Jacques Cousteau - marine biologist

Cindy Looy - plant ecologist, environmental change

Joan Beauchamp Procter - zoologist

CPD opportunity

https://www.reachoutcpd.com/courses/

Useful Links

- https://www.bbc.co.uk/bitesize/topics/zbnnb9q
- https://app.discoveryeducation.co.uk/learn/channels/channel/f798212b-0893-4cdc-beb9-bbc02112806f

Living things and their habitats

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Early	•	Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their
leaming		own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain
goal		why some things occur and talk about changes.
Year 1	•	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. (Y1 - Plants)
	•	Identify and describe the basic structure of a variety of common flowering plants, including trees. (Y1 - Plants)
	•	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. (Y1 - Animals including humans)
	•	Identify and name a variety of common animals that are carnivores, herbivores and omnivores. (Y1 - Animals including humans)
	•	Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). (Y1 –
		Animals, including humans)
	•	Observe changes across the four seasons. (Y1 - Seasonal change)
Year 2	•	Explore and compare the differences between things that are living, dead, and things that have never been alive.
	•	Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of
		different kinds of animals and plants, and how they depend on each other.
	•	Identify and name a variety of plants and animals in their habitats, including microhabitats.
	•	Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different
		sources of food.
	•	Notice that animals, including humans, have offspring which grow into adults. (Y2 - Animals including humans)
Year 3	•	Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. (Y3 - Plants)
Year 4	•	Recognise that living things can be grouped in a variety of ways.
	•	Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.
	•	Recognise that environments can change and that this can sometimes pose dangers to living things.
	١.	Construct and interpret a variety of food chaine identifying producers predators and prev. (VA - Animals including humans)

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Animals, including humans

THI HI WA	s, including humans
Early learning	 Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain
goal	why some things occur and talk about changes.
Year 1	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.
	Identify and name a variety of common animals that are carnivores, herbivores and omnivores.
	Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).
	 Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.
Year 2	Notice that animals, including humans, have offspring which grow into adults.
	Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).
	 Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.
	 Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different
	sources of food. (Y2 - Living things and their habitats)
Year 3	 Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get
	nutrition from what they eat.
	 Identify that humans and some other animals have skeletons and muscles for support, protection and movement.
Year 4	Describe the simple functions of the basic parts of the digestive system in humans.
	Identify the different types of teeth in humans and their simple functions.
	Construct and interpret a variety of food chains, identifying producers, predators and prey.