

Subject: Science Year Group: Yea		Area of learning: Living Things and their Habitats (Year A)
Links to previous work/Remember when	 The Year 3 children studied common animals found in the local environment last year, as well as the basic needs of animals including humans. The Year 3 children also examined habitats and microhabitats. The Year 4 children studied similar topics when they were in the single age Year 2 class and of course completed work on the digestions system and teeth last year. 	
Term	 in different ways observing closely, us performing simple te identifying and class using their observation gathering and record 	sts ifying ons and ideas to suggest answers to questions ling data to help in answering questions.
Term	Year Key Skills to 3/4	be taught
Autumn 2024 What the children should know at the end of this series of lessons	of ways. • Explore an and name environme • Recognise	that living things can be grouped in a variety ad use classification keys to help group, identify a variety of living things in their local and wider nt. that environments can change and that this imes pose dangers to living things.
	 scientific e setting up tests making sys appropriate standard u thermomet gathering, variety of v recording f drawings, reporting c written exp and conclu (not using prediction 	evant questions and using different types of nquiries to answer them simple practical enquiries, comparative and fair stematic and careful observations and, where e, taking accurate measurements using units, using a range of equipment, including ters and data loggers recording, classifying and presenting data in a ways to help in answering questions findings using simple scientific language, labelled diagrams, keys, bar charts, and tables on findings from enquiries, including oral and planations, displays or presentations of results

		me
	• identifying differences, similarities or changes related to	
	simple scientific ideas and processes	
	 using straightforward scientific evidence to answer 	
	questions or to support their findings	

Vocabulary

life process, living/non-living, movement, respiration, sensitivity, growth, reproduction, excretion, nutrition, sort, group, herbivore, omnivore, carnivore, criteria, characteristics, mammal, fish, amphibian, bird, reptile, vertebrate, invertebrate, skeleton, exoskeleton, endoskeleton, habitat, environment, nature, classification key, identify, questions, characteristics, features, environmental change, pollution, deforestation, climate change, biodiversity, littering extinction.

Sequence of	Learning	Suggested lesson outline
learning	Objectives/Outcomes	
1	Learning Objective:	Recap
Use Explorify	Recognise that living things	What can we remember about living, and
zoom in zoom	can be grouped in a variety	non-living tings? How do we know if
out 'Strange	of ways – specifically I can	something is alive? Recap MRS GREN as
stripes' as a	develop descriptions using	the seven life processes.
starter for	relevant scientific language	
discussion.	and vocabulary.	Seven Life Processes
		The seven life processes are movement,
	Key Knowledge:	respiration, sensitivity, growth,
	Know that the seven life	reproduction, excretion and nutrition. All
	processes define living	living things, all plants and animals do
	things and mark them as	these things too. We can remember them
	different to non-living things.	with MRS GREN
		What children record
	Enquiry Type	Children complete a matching activity with
	N/A	the seven life processes and then write
		one sentence saying why they are
		important. Secondly, children complete
		the challenge showing how a cat and a
		plant get rid of waste.
2	Learning Objective:	Recap
	I can recognise that living	Can you remember MRS GREN? What do
	things can be grouped in	they stand for? What are the five main
	various ways.	groups of animals?
	Key Knowledge:	Grouping Animals
	Animals can be grouped	Fish live in water, have gills, scales and
	into fish, amphibians, birds,	fins. Mammals have hair on their body and
	reptiles and mammals.	drink milk when it is a baby. Amphibians
	Know at least some key	are born in water with gills, and then grow
	characteristics from Y2 work.	up to be able to go on land as well,
	WOIK.	breathing through lungs that they develop.
		Reptiles are cold blooded and are born on
		land. They are born from soft eggs. Birds



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	Enquiry Type Making systematic observations and classifying and presenting data.	have feathers and are born from hard eggs – not all birds can fly of course. NUTRITION – herbivores, carnivores and omnivores.
		What children record Children spend time classifying animals based on their nutrition, then the animal groups and then a method of grouping of their own choice. (One example could be given if needed as a prompt). If time, complete the next step together as a whole class – no need for the children to record this.
3	Learning Objective:	Recap
	I can recognise that living things can be grouped in a variety of ways.	Can you remember MRS GREN? What do they stand for? Last week we talked about grouping animals based on nutrition. What can you remember about that?
	Key Knowledge:	
	Many animals have skeletons, however, they don't all look the same. Vertebrates have a spine or backbone. Invertebrates do not have a backbone. Some animals have an exoskeleton, and some have no skeleton. Enquiry Type Making systematic observations and classifying and presenting data.	Skeleton and no Skeleton Animals with a backbone do not have the same skeleton – e.g. an owl and a frog. Vertebrates were the groups we looked at last week. All of them have skeletons. Invertebrates are a group that do not have backbones and are insects, arachnids, crustaceans, myriapods and molluscs, as well as jellyfish, earthworms, starfish and many more. Some animals have an exoskeleton – a skeleton on the outside. What children record Children sort animals into the correct group based on vertebrates and non- vertebrates. After that, children to write a short information leaflet style entry for one of the groups. A challenge could be to give the difference between invertebrate and vertebrate using scientific language.
4	Learning Objective: I can explore, identify and name a variety of living things in their local and wider environment.	Recap Discussion questions with a partner: - What do living things do? What is a vertebrate? Can you give examples of a vertebrate? What is an invertebrate? Can you give examples of an invertebrate?
	Key Knowledge: A mini beast is a word used to describe a wide variety of small invertebrate animals. Some examples are	Classification and the local environment of the school We will use iPad to take photographs of different plants and animals found in the



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	butterflies and moths, spiders, dragonflies, slugs and snails, beetles. Our school environment is a habitat for several different living things. Many living things (animals) must be returned to their environment as soon as possible. Enquiry Type Making systematic observations and classifying and presenting data.	school grounds. Photographs should include a ruler to show scale. With the children and a list of likely plants and animals, including mini beasts, carry out a search of the school grounds. What children record Once back in the classroom, review the pictures and discuss what has been found. Is that what we might have expected? Select one of the things the children photographed and complete an information page, including a diagram and caption for the organism concerned. Children could use the iPad to research more about the organism, for their description.
5 Use Explorify What's going on 'River Life' as a way into this lesson.	 Learning Objective: can explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. Key Knowledge Classification keys help us identify plants and animals. These use animals' features and characteristics usually through a statement or question. Enquiry Type Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.	 Recap Remember our search of the school grounds last week. What could we use to identify plants and animals that we do not know the name of? Classification Keys Classification keys use questions or statements about an organisms features or characteristics. Have a go at using one to identify the three minibeasts given. We are now going to write a classification key for Liquorice Allsorts. You can only use questions which have a yes or no answer. What children record Children write a Liquorice Allsorts classification key. Once that is done and tested by other groups, children investigate the classification key given as a challenge. Is this correct or not? (It is correct)
6	Learning Objective: I can recognise that environments can change and that this can sometimes pose dangers to living things. Key Knowledge Environment is a place that a living thing lives in and	 Recap Remember our search of the school grounds last week. What could we use to identify plants and animals that we do not know the name of? Environmental Change Go through each of the topics identified on your key knowledge section. If possible, provide quality videos of each topic. Allow



	things and their habitats.	learnt and retained about this topic.
	been learnt about living	assessment task to judge what they have
Activity)	To demonstrate what has	Children complete a short formative
(Assessment		
7	Learning objective:	ASSESSMENT LESSON
	and presenting data.	
	observations and classifying	
	Making systematic	
	Enquiry Type	
		have to change what they currently do
	(including littering)	easy – it may cost money and people may
	species, causing climate change and pollution	changing some of these things is never
	over-hunting specific	and what they think should be done about it. Make sure the children understand
	destroying natural habitats,	why they have chosen this particular one
	others. We are guilty of	discussed in this lesson. They should say
	have a huge impact on the	one of the environmental change topics
	the loss of one species can	Children write about their feelings about
	really important because	What children record
	in environment can cause extinction. Biodiversity is	the importance of each topic.
	that environment. A change	discuss together so they really understand

Learning Outcome/product

During this unit of work, children will learn to recognise the seven life processes common to all living things. They will learn to sort living things using a variety of criteria and extend their use of scientific vocabulary to describe the features and characteristics of animals and plants.

They will conduct a local habitat search and learn to identify unknown living things using a classification key. Children will consider how environmental change impacts the local area and suggest ways humans can prevent further damage.

Assessment records	List only those children who have not achieved the expected outcomes.	

End of unit assessment question

E.g. Are humans good or bad for the environment? How do scientists classify living things?