

Mendell Primary School Aspire Challenge Achieve

Medium Term Plan Science



Year Group: 1	Term: Spring 2 continued from Spring 1	Teacher: Nicole Morning	Subject lead: Sarah Bride	Overview: Animals includin	Key End Points: children will be able	By the end of this unit to:
Common Misconceptions: Some children may think: • only four-legged mammals, such as pets, are animals • humans are not animals • insects are not animals • all 'bugs' or 'creepy crawlies', such as spiders, are part of the insect group • amphibians and reptiles are the same.		Unit key Vocabulary: • Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves • Names of animals experienced first-hand from each vertebrate group		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 carnivore herbivores and omnivores. Describe and compare the structu of a variety of common animals (fit amphibians, reptiles, birds and mammals, including pets). Identifying, grouping and classifying Making observations to name, sort and organize tiems.	□ Talk about and de □ Talk about what a □ Talk about where □ Talk about how to □ Compare animals	animals live. look after a pet.
Links to other learning: DT – healthy eating	Prior Learning: Use all their senses in hands-on exploration of natural materials. (Nursery) Begin to make sense of their own life-story and family's history. (Nursery) Understand the key features of the life cycle of a plant and an animal. (Nursery)	other animals, using the idea identify and name different sthings and their habitats. Describe how living things groups according to commor and based on similarities and	are classified into broad n observable characteristics	The Gruffalo. What to do with a tail like this. Joan Proctor, Dragon	Risk Assessment: Chicks and snake — animal handling allergies.	Teacher CPD: ASE plan exemplification – Eva/Olivia. Reach out CPD https://www.reachoutcpd.com/sign up for free.

	re	Begin to understand the need to espect and care for the natural nvironment and all living things. Nursery)	Give reasons for classifying plants and animals based on specific characteristics. (Y6 - Living things and their habitats)		Carnivores of they eat oth	don't eat meat er animals.
_	earning itention		Lesson Outline (Key Questions in colour)	Resource	<u>Vocabulary</u>	Lowest 20% Adaptations
1.	L.I I can sort animals according to their features including their diets.	Pre assessment: what do we kee Can you name any animals? What animals live on our school Record responses in floor bool Read the book the Gruffalo to the isn't a feel animal) You may wish frog, dragonfly and additional animals and Explain there are lots of different videntify and name body parts to so the week: carnivore, of the week: carnivore, of the week: carnivore, of the week offer a definition? - Some Provide the children with word can animals that only eats other animals groups and photograph — an examinals that only eats other animals of the week: wo of the e.g. both want to eat the mouse of animals? No — use matching to so walks on the ground. The owl has model e.g. wings, no wings, two leads one criteria. Provide children with model animal number of legs, fur, feathers, scales.	children and ask them to name and identify all of the animals in the story. (to watch the Gruafflo video prior to this lesson as this would provide a good mals the mouse encounters. t animals? I ask the big question: how can we sort animals? — take feedback — you ways we can sort animals. Encourage the children to look for different in the support them.	Gruffald book, print pictures animals toy models, hoops, word cards, definition cards an animals look and to ways the animals look and to ways the animals look and to liste any of these words? Can liste any of the animals look and to words.	of of or scales, wings, beak, paws, tail, fish	

If a group have sorted the animals according to their diets use this as a model to the other children. If no group sorts the animals in this way bring everyone back to the carpet and sort them into carnivores, herbivores and omnivores. Discuss how can we use two hoops to sort in three ways?

Modell the overlapping section of the Venn diagram. Have some information books available to check if the children are unsure of were to sort the animals. Back at tables give the children more woodland animals and ask them to sort them according to what they eat. Photograph in books.

Examples:







L.I. I explain what a mammal	This is a Science lesson. In Science, we study nature and the behaviour of natural things. The skill we will be using this lesson is observing and asking questions.	Odd one out — say cheese.	Mammal, Fur, hair, young,
is and	Prior learning recap:		lungs,
know	What is a herbivore? — animal that only eats plants. What do carnivores eat? — other animals	What is a	habitat, backbone.
some of		mammal	
their	Can you name an animal that is an omnivore?	resource	spine.
characte	What is similar between a fox and a mouse? – tail, fur, four legs	PowerPoin	
ristics.	What is different between a snake and an owl? – wings, scale, feathers, omnivore/carnivore.	t and	
ristics.		video link,	
	Explorify — Odd One Out — Say Cheese — record in floor book — encourage children to name characteristics like in prior lesson. What	IPads.	
	questions do they have about the animals?	Range of	
		animal	
	Big Question: What is a mammal? – ask the children if they have ever heard this word or know what it means? Can they	pictures –	
	name a mammal?	real not	
		cartoon.	
	Work through the mammals PowerPoint and ensure the children can identify features of a mammal. — to do this show the children a range of		
	animals from the different types. As a class, sort them into mammals and not mammals on the carpet — do the children identify features		
	discussed from the PowerPoint.		
	Word of the week: mammal - share what is mammal resource/https://www.youtube.com/watch?v=_3ZHiBaecu4 - Key learning: a		
	mammal is a type of animal. All mammals have a backbone also called a spine, most mammals give birth to live young, they have hair or fur		
	on their bodies, they have lungs to breathe air and all mammals feed their young milk.		
	and the state of t		
	Task: children draw a picture of a mammal of their choosing, label body parts, characteristics and finally labels to prove it is a mammal.		
	Provide a word bank if needed: head, legs, tail, paws, hooves, wings, eyes, fur, hair, backbone, lungs etc		
	Further learning challenge: can they children find out which mammals do not give birth to live young.		
	Exit Pass:		
	True or false quiz		
	1. Humans are mammals T		
	2. Mammals only live on landF		
	3. Mammals have lungs for breathing airT		
	4. Most mammals lay eggsF		
	5. Mammals feed their babies on plantsF		
	6. All mammals have hair or furT		
	Challenge: can the children correct any false statements e.g. mammals feed their babies milk.		
	Ensure the children have experience of the chick eggs before they hatch – take pictures for floor book – children may have		
	questions you could note down as pupil voice. — Delivered 7th March.		

3.	L.I. I can name the characte ristics of birds and reptiles.	This is a Science lesson. In Science, we study nature and the behaviour of natural things. The skill we will be using this lesson is making observations and asking questions. Prior learning recap: What do omnivores eat? – eats other animals and pants. Can you name a carnivore that lives in a hot, dry habitat? – lion, cheetah, vultures, hyenas, jackals etc			Retile, bird, wings, beak, eggs, claws, tails, feathers, omnivores, cold blooded, scaly skin, lungs, carnivore, herbivores.	
		Example layout HA: picture cards. Only this animal has	LA: group work post it notes to identify similarities and differences around the			
		They both have both have both have solar both have solar both have both have both have solar both have a tall.				

Key learning:

Birds: have wings, have beaks for eating, lay eggs which hatch into chicks, birds have claws on their feet, birds have tails that help them fly, they have feathers to keep warm, birds are omnivores.

Reptiles:

Most lay eggs, are cold blooded, dry scaly skin, have lungs and breathe air. **Most reptiles are carnivores**, and eat whole prey or insects. Some reptiles (adult green iguanas, for example), are herbivores and eat green plants.

Exit pass: generate questions for Zoo Lab animal encounter workshop after showing the children the animals they are bringing in.







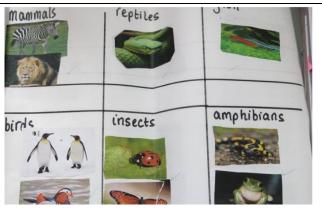




HMK Family Challenge: using the great British bird watch checklist see how many birds visit their gardens or nearby woodlands.

Miss Morning show the children your footage from home.

5.	L.I. I can name the characte ristics of amphibi ans and fish	Animal Encounter session – Zoo Lab – 22 nd March (9.45-10.15am – Next year have a focus on birds and arrange for Gauntlet Birds of Prey company to come in as FS2 children will have experienced this handling session already. Two-year rolling program for activities. Here children will also gain an understanding of insects and arachnids alongside mammals, reptiles and amphibians. Ensure pupil voice is recorded by the teacher and picture evidence is put into the class floor book along with pupil voice. This is a Science lesson. In Science, we study nature and the behaviour of natural things. The skill we will be using this lesson is making observations and asking questions Prior learning: What Animal am I? Starter quiz. I am a bird, I am an omnivore and eat plants and insects, I like to float on water, I make a quaking sound. – Duck - See how many clues the children need before finding the correct answer. What am I? I am cold blooded, I lay eggs, I have dry scaly skin, I have no legs – snake. Watch the following video and ask the children to name as many different animal they see - https://www.youtube.com/watch?v=75FP2h88-Og they may not be able to correctly name the newt support them with this. Discuss the names of these different animals – fish, tadpoles, toad, fish, newt etc. What do you notice about them? What do they have on their bodies? How do they move? What is similar/different? Explain to the children that within this group of animals are two animal types – can they name either? Explore the words fish and amphibian. At this point, ask them to sort picture cards into whether they think it is a fish or amphibian. After they have sorted discuss with each other how they did it, what features did they notice? E.g., the fish have fins and the amphibians have legs. Ask the children if they handled any of these types of animals in their Zoo Lab session. What do you recall about this animal? – Frog. Ask the children if they handled any of these types	What am I quiz, picture cards – real.	Fish, amphibian, scales, gills, fins, cold blooded, webbed feet, carnivores, omnivores, eggs, moist.	
		lesson is Consolidation/gap busting lesson – short lesson planned in order for class teacher to gap bust anything the children may still be unsure of or if misconceptions need addressing.	Picture cards, book – what do you do		



Read/listen to the story - What do you do with a tail like this - https://www.youtube.com/watch?v=1ARuoc_mrs4 can the children identify what animal group some of the animals belong to from the story. Provide the children with pictures to sort under the following headings: mammals, reptiles, fish, amphibians, birds. Can the children explain how they know e.g. a whale is a mammal because etc....

Note: children may talk about insects following the Zoo Lab experience.

with a tail like this?