End of Unit Goals

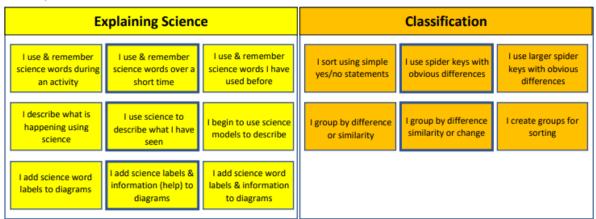
Pupils will be able to:

- 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

Prior Knowledge

Identify local plants & animals by sight (Plants; Animals Yr1) Define/identify carnivore, herbivore & omnivore (Animals Yr1) Identify natural & man-made materials (Materials Yr1 & Yr2) Identify sun as natural source of light (energy) (Light Yr1) Identify seasonal changes for abiotic factors (seasons Yr1) Requirements for plant/animal growth (Plants; Animals Yr2) Life cycle of a plant and animal (human) (Plants; Animals Yr2)

Skill Objectives



Enquiry Types











Patterns over time testing

Key Vocabulary

Living, dead, non-living, movement, respiration, breathing, energy, sensitivity, sight, touch, hearing, smell, taste, growth, reproduction, offspring, excretion, waste, nutrition, habitat, microhabitat, conditions, adapted, adaptation, light, temperature, water, humidity, food chain, feeding, sort, oup, classify, criteria, spider ke

Important Scientists



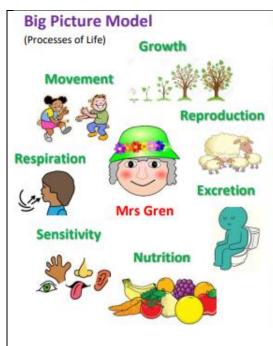
David Attenborough (1926-) British scientist and broadcaster made ground-breaking programmes about wildlife and conservation since the 1960s. He has had a huge influence on engaging and bringing wildlife decline into common understanding.

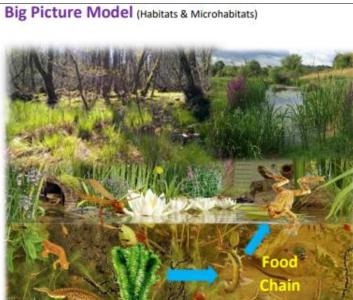


Jane Goodall (1934-) English scientist and world expert on chimpanzee behaviour. She was first introduced to chimps as a baby and spent her whole life studying them in Tanzania. She discovered that chimps are not herbivores but also ate meat.

Common Misconceptions

Breathing & respiration are the same (careful as good enough for Yr2). Respiration and photosynthesis are the same. Excretion is when you poo! Plants are not alive as they don't move. Top of a food chain eats everything below. Our food is made in shops. Food chains just involve animals. Food chain arrow shows what eats what (wrong way around).





Session	Knowledge Objective	Skill Objective	Enquiry Opportunities	Extension Opportuni ties	SEN
1			Complete KWL Grid as a class. Recap previous year with a quiz. Explore and discuss skills and knowledge that will be covered in unit.		
2	What makes something living? • Know 7 processe s of life essential for keeping alive & healthy. Common to all living things. • Know basic definitions for movement, respiration (breathing), sensitivity, growth, reproduction, excretion, excretion.	I can use and remember science words. I can use and remember relevant science words during an activity. I can remember science words I have used before (longer term.)	Develop a basic understanding of 7 life processes. Introduce MRS GREN to help remember the processes. Movement watch video clip of a child dancing, animal moving and leaf moving using links below. Respiration(breathing) Get chn to run about/count pulse rate. Sensitivity Recall 5 senses. Play game using the 5 senses. Smell/blind fold and touch and taste. Play sound and see what can be heard. Plenary Begin to form mind map to show life processes looked at today. Recap using MRS GREN Key Vocabulary movement, making energy (respiration), sensitivity, growth, reproduction, getting rid of waste (excretion), nutrition,	Design spacesuit to support life. How do senses help us to stay alive? Extend to investigation .	Pre-teach vocab Provide word banks to support processes

	nutrition				
	(Mrs				
	Gren)				
	Dead =				
	once had				
	7				
	processe				
	s but not				
	anymore				
	What makes	I can use and	Recap previous session discussing MRS GREN	Design	Pre-teach
	something	remember	and the processes looked at.	spacesuit to	vocab
	living?	science		support life.	
	Know 7	words.	Growth	How do	
	processe		Provide with a selection of growth stages for	senses help	Review
	s of life	I can use and	humans, animals, and plants. Chn put into	us to stay	words from
	essential	remember	cycle.	alive? Extend	previous
	for	relevant	Reproduction	to	session.
	keeping	science words	Provide with babies and adults to match.	investigation	
	alive &	during an	Excretion		Provide word
	healthy.	activity.	Fill tube with water, when full release water to		banks to
	Common	ŕ	show how our bladder excretes urine.		support new
	to all	l can	Watch clips: https://www.eric.org.uk/videos-		processes.
	living	remember	about-wee-and-poo		•
	things.	science words	Nutrition		
	• Know	I have used	Provide with some real foods and sort into		
	basic	before	hoops of good and bad foods.		
	definitio	(longer term.)	Plenary		
	ns for		Continue to form mind map to show life		
	moveme		processes looked at today.		
3	nt,		Recap using MRS GREN		
_	respirati		Key Vocabulary		
	on		movement, making energy (respiration),		
	(breathi		sensitivity, growth, reproduction, getting rid of		
	ng),		waste (excretion), nutrition,		
	sensitivit		maste (energine), natingen,		
	у,				
	growth,				
	reproduc				
	tion,				
	excretio				
	n &				
	nutrition				
	(Mrs				
	Gren)				
	Dead =				
	once had				
	7				
	processe				
	s but not				
	anymore				

	sade - ·	1	Description of the Control	D 1 2	Burnett 191
	What makes	I can group	Recap MRS GREN	Research &	Provide with
	something	using	What does it mean to be living? What does it	support	concrete
	non-living?	differences,	mean to be non-living? Discuss and add ideas	sustainability	resources to
	Non-living	similarities,	to working wall.	ideas (e.g.	sort into living and
	= Have	or changes.	to working wan.	plastics).	non-living.
	some, but	I can group by	Sort pictures into living, non-living., used to be		Adult to
	not all	difference or	alive. Chn split page and place headings.		document on
	processes	similarity.	anver eim spire page and place fleddings.		post-it note
	of life.	Similarity.	Plenary		and stick in
	■ Know a	I can create			book.
	range of	groups for	Discuss choices and give reasons. The is		200
	natural		alive because		
	(e.g. rock	sorting.	The ion/t alive because		
_	(soil),		Theisn't alive because		
4	water, air,		Key Vocabulary		
	light, heat)		no, rounding		
	and non-		Living, dead, non-living,		
	living items		movement, making energy		
	that are		(respiration), sensitivity,		
	not natural		growth, reproduction,		
	(e.g.		getting rid of waste		
	plastic,		(excretion), nutrition,		
	machines,		habitat		
	etc).		sort, group, classify, criteria		
	(Non-living				
	variables in a				
	habitat are				
	called abiotic				
	factors)	I com was an el	Milestia a habitata Diagnas	laatiaata.	Due teesle
	What is a	I can use and remember	What is a habitat? Discuss	Investigate: Where do	Pre-teach vocab
	habitat?	science	Identify & describe different habitats within	we find most	VOCAD
	What is a	words.	school grounds. Use comparative language to	worms	Comparative
	micro-	Words.	compare.	(design)?	word bank
	habitat?	I can use and		(design).	with picture
	■ Habitat –	remember	Describe abiotic factors in a habitat. Describe		clues to
	home that	relevant	as words (light/dark), comparative language.		support
	provides all	science words			describing
	things	during an	Identify & describe different micro-habitats		abiotic
	needed for	activity.	within a habitat. Use comparative language.		factors.
	survival		Describe abiotic factors in micro-habitat.		
	(see	I can	Describe abiotic factors in filicio-flabitat.		
	Animals /	remember	Teacher to scribe the different facts as moving		
	Plants;	science words	around the different habitats.		
_	shelter,	I have used			
5	need for	before			
	mate).	(longer term.)			
	■ Micro-				
	habitat =				
	small; provides				
	special				
	conditions.				
	Able to				
	distinguish				
	between				
	habitats/mi				
	cro-				
	habitats				
	using				
				•	
	comparativ				

	(e.g.				
	light/dark,				
	warm/cold)				
	■ Can name				
	different				
	habitats /				
	micro-				
	habitats.				
	How are	I can sort	Recap the word habitat.	Make a	Pre-teach
	living things	using simple	This has been a substant to the beautiful beau	wormery.	vocab of
	suited to	yes/no	Think about why animals have a habitat and	What will be	minibeasts
	their habitat	questions.	what sorts of habitats there can be. What	needed?	with picture
	/ micro-		animals might we find in different habitats.	How will we	cues and
	habitat?	I can use a	What is a microhabitat?	care for the	words.
		spider key.	Chn investigate microhabitats around school	worms?	Donat dala sodala
	Able to	Loopuso	-		Provide with
	sample /	I can use	grounds. Work in pairs using a key to identify the different minibeasts found.		pictoral word bank of
	collect	larger spider	the different minibeasts found.		minibeasts
	living	keys with	Chn record minibeasts found drawing and		and or
	things from a local	obvious	labelling. What is the habitat like? (dry, damp,		concrete to
	habitat	differences.	wet, dust rocky, muddy, woody, leafy, hard,		support
	using a		soft, light, dark)		labelling and
	range of				drawing.
	appropriat		Key Vocabulary		
	e		habitat, microhabitat, adapted, adaptation,		
	equipment.		conditions, light, temperature, water,		
6	Able to		humidity.		
	increasingl		sort, group, classify, criteria, spider key.		
	y name				
	living				
	things				
	collected				
	by sight and				
	through				
	resources				
	(e.g. keys,				
	ID cards,				
	etc)				
	Begin to link				
	number				
	caught &				
	simple body				
	features to				
	(micro)habita				
	t where it was				
	found. What is a	I can use	Watch clin about food chains	Demo starch	Pre-teach
	food chain?	science to	Watch clip about food chains.	test on leaf	vocab
	1000 Citalii:	describe what	https://www.bbc.co.uk/teach/class-clips-	to show	70000
	Can you	I have seen.	video/science-ks1-the-food-chain/zbr8d6f	sugar	Use of
	construct	I can add		formation	concrete
	food chains?	science labels		(emphasise	objects to
		and	What did you eat for lunch? Link back to	food &	place into a
7		information	source of food.	energy	food chain.
	Know that	to diagrams.	334,36 01 1004.	transfer; not	
	plants need		Chn to make food chains with pictures and	what eats	Word labels
	light	I can describe	draw arrows to show transfer.	what).	with picture
	(energy) to	what is			cues to use for labels.
	grow.	happening. I can add			ioi iabeis.
	Animals	science word			
L	1	JOICHICE WOLL			

Grindon Infant Science Medium Term Planning - Year 2 Living Things and their Habitats

ı	need food	labels to	Key Vocabulary	
	(energy) to	diagrams.	_	
	grow.		Food chain, transfer, carnivore, herbivore,	
- (Can place	I begin to use	omnivore, producer, consumer	
	living	science		
1	things in	models to		
	order	describe.		
	according	I can add		
1	to feeding	science word		
	(plant	labels and		
	always at	information		
1	the start).	to diagrams.		
- (Can use			
	arrows to			
	represent			
	'transfer' of			
	food (&			
	energy).			
	Can			
	describe			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	what the			
	arrow			
	represents.			
	Construct			
	simple food			
	chains			
	independe			
Ford of weit Ovice	ntly.			

End of unit Quiz

Useful Texts, Website & Resources

 $\underline{https://www.bbc.co.uk/teach/class-clips-video/science-ks1-the-food-chain/zbr8d6f} \ - \ Food\ Chains$

Wiggling Worms at Work – Wendy Pfeffer

Little People, Big Dreams-David Attenborough

Little People, Big Dreams-Jane Goodall

My Living world – Wormery plastic container

Electronic microscope

Magnifying glasses

Petri dishes

Pooters