

<u>Knowledge and Skills Progression – Science</u> Place and Space – Habitats Comparison - Physical things, Phenomena Change - Living Things



	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place and Space - Habitats	A habitat is a place where living things live. Living things, including plants and animals, live in the local environment. Begin to observe and talk about living things in the local environment.	A habitat is a place where living things live. Local habitats include woodlands, gardens and ponds. Other habitats include hot places, such as deserts, and cold places, such as the Arctic. Observe and describe living things and their habitats within the local environment.	The local environment is a habitat for living things and can change during the seasons. Observe the local environment throughout the year and ask and answer questions about living things and seasonal change.	Local habitats include parks, woodland and gardens. Habitats beyond the locality include beaches, rainforests, deserts, oceans and mountains. All living things live in a habitat to which they are suited and it must provide everything they need to survive. Describe a range of local habitats and habitats beyond their locality (beaches, rainforests, deserts, oceans and mountains) and what all habitats provide for the things that live there.	Environments are constantly changing due to natural influences, such as seasons, extreme weather, population changes and availability of food. Living things must adapt to these changes in order to survive. Describe how environments can change due to natural influences and how living things need to be able to adapt to these changes. Assign	Humans can affect habitats in negative ways, such as littering, pollution and land development, or positive ways, such as garden ponds, bird boxes and wildflower areas. Describe how environments can change due to human and natural influences and the impact this can have on living things.	Farming in the UK can be divided into three main types: arable (growing crops), pastoral (raising livestock), mixed (arable and pastoral). Intensive farming in the past has resulted in the loss of habitats. Research and describe different farming practices in the UK and how these can have positive and negative effects on natural habitats.	Living things are classified into groups, according to common observable characteristics and based on similarities and differences. Research unfamiliar animals and plants from a range of habitats, deciding upon and explaining where they belong in the classification system.
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Comparison - Physical	Make simple comparisons between	Objects can be compared and grouped	Materials can be grouped according to	Living things are those that are alive. Dead	Magnets have two poles (north and south).	Electricity is a type of energy. It is used to	A life cycle is the series of changes in the	Environmental factors can affect the distribution of
things	objects and materials, such as bigger and smaller, and	according to their shape, colour, material	their properties. Compare and	things are those that were once living but are no	Opposite poles (north and south) attract each other while	power many everyday items, such as kettles, computers and	life of a living thing and includes these basic stages:	living things within a habitat. These factors include light
	softer and	Compare and	materials in a	things have	like poles (north	televisions.	birth, growth,	(intensity and

	harder.	group objects	variety of	never been	and north, or	Electricity can	reproduction and	duration),
		and materials	ways, such as based on their	allve. Compare	south and south)	also come from	life cycles	soil type and
		simple given	physical	things that are	Investigate and	Batteries	include the	humans, such as
		criteria.	properties;	living, dead or	compare a range	eventually run	stages: embryo,	when we mow or
			being natural	have never	of magnets (bar,	out of power and	juvenile,	trample grass.
			or man-made	been alive.	horseshoe and	need to be	adolescent and	Compare the
			and being		floating) and	recycled or	adult.	living things in
			recyclable or		explain that	recharged. Battorios powor		two contrasting
			non-recyclable.		two poles (north	devices that can	the stages: equ.	(top vs bottom of
					and south) and	be carried	larva (tadpole),	a hill, full sun vs
					that opposite	around, such as	adolescent and	shade, exposed
					poles attract	mobile phones	adult. Some	location vs
					each other, while	and torches.	insects'	sheltered location
					like poles repel	Compare	(Dutterfiles,	or well-trodden
					each other.	household	bees) life cycles	area).
						equipment and	include the	
						appliances that	stages: egg,	
						are and are not	larva, pupa and	
						powered by	adult. Birds' life	
						electricity.	the stages and	
							baby, adolescent	
							and adult.	
							Compare the life	
							cycles of	
							animals,	
							mammal an	
							amphibian, an	
							insect and a	
							bird.	
-	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Comparison	Shadows are	A shadow is the	Shadows are	Volume is how	Friction is a force	Sounds are	Friction, air	A circuit needs a
-	made on	same snape as	normally the	sound is Pitch	Detween two	the sound source	resistance and	power source,
Phenomena	They can be	makes it.	the object that	is how high or	move over each	and fainter as	are forces that	or cell, with wires
	big or small	Shadows	cast them.	low a sound is.	other. Friction	the distance	oppose motion	connected to both
	and can	change during	Shadows	Compare the	slows down a	from the sound	and slow down	the positive and
	change shape	the day. Make a	change during	volume and	moving object.	source increases.	moving objects.	negative
	and size. Play	shadow bigger	the day as the	pitch of sounds	Smooth surfaces	Compare how	These forces can	terminals. Other
	with objects or	or smaller using	Sun appears to	made by	usually generate	the volume of a	De USETUI, SUCH	components
		equinment and		their voices or	rough surfaces	at different	as Dike Drakes	huzzers or
	create	a light source	sky Shadows	other objects	Compare how	distances from	hut sometimes	motors which an

		1			1			
	shadows.		occur where		objects move	the source.	we need to	electric current
			light is blocked		over surfaces		minimise their	passes through
			by an opaque		made from		effects such as	and affects a
			object		different		streamlining	response such as
			Object.		matariala		bests and planes	lighting a large or
			Compare		materials.		boats and planes	lighting a lamp or
			shadows made				to move through	turning a motor.
			by different				water or air	When a switch is
			objects and				more easily, and	open, it creates a
			materials.				using lubricants	gap and the
							and ball bearings	current cannot
							between two	travel around the
							surfaces to	
							surfaces to	circuit. When a
							reduce friction.	switch is closed, it
							Compare and	completes the
							describe, using a	circuit and allows
							range of toys,	a current to flow
							models and	all the way
							natural objects.	around it.
							the effects of	Compare and give
							water registance	roasons for
							water resistance,	
								variations in now
							and friction.	components in
								electrical circuits
								function
								(brightness of
								lamps: volume of
								buzzers and
								function of on or
								off cwitchoc)
	Nursory	Pecention	Voar 1	Voar 2	Voar 3	Voar 4	Voar 5	Voar 6
Character	living things							Ceientiete
Change -	Living things	Living things	All living things	Plants grow	Flowers are	Habitats change	Humans go	Scientists
Living	change and	change over	(plants and	from seeds and	Important in the	over time, either	through	compare
thinas	grow. Say now	time. This	animais)	buibs. Seeds	life cycle of	due to natural or	characteristic	rossilised remains
5	a living thing	includes growth	change over	and bulbs need	flowering plants.	human	stages as they	from the past to
	has changed	and decay.	time as they	water and	The processes of	influences.	develop towards	living species that
	over time.	Explore the	grow and	warmth to start	a plant's life	Natural	old age. These	exist today to
		natural world	mature.	growing	cycle include	influences	stages include	hypothesise how
		around them	Describe,	(germinate). As	germination,	include extreme	baby, infant,	living things have
		and give simple	following	the plant grows	flower	or unseasonable	toddler, child,	evolved over
		descriptions	observation	bigger it	production	weather Human	adolescent	time Humans
		following	how plants and	develops leaves	pollination seed	influences	young adult	and anes share a
		observation of	animals change	and flowers	formation and	include babitat	adult and conjor	common ancestry
		changes	over time	Obsorie and	cood dispersel	doctruction or	citizon Duborty	and ovidence for
		changes.	over time.	describe have	seeu uispeisai.		in the transition	this some from
				describe now	insects and the	pollution. These	is the transition	this comes from
				seeds and bulbs	wind can transfer	cnanges can	between	tossil discoveries
				change over	pollen from one	pose a risk to	childhood and	and genetic
				time as they	plant to another	animals and	adulthood.	comparison.

		grow into	(pollination).	plants that live in	Describe the	Explain that living
		mature plants.	Animals, wind,	the habitat.	changes as	things have
			water and	Explain how	humans develop	changed over
			explosions can	unfamiliar	from birth to old	time, using
			disperse seeds	habitats, such as	age.	specific examples
			away from the	a mountain or		and evidence.
			parent plant	ocean, can		
			(seed dispersal).	change over time		
			Draw and label	and what		
			the life cycle of a	influences these		
			flowering plant.	changes.		