Science Progression of Knowledge and Skills Living things and their habitats

Key to understanding this document: Black = National Curriculum objectives Red = Knowledge/Skills to be taught Green = Resources to be used

At The Discovery School we understand the importance of our children knowing more, remembering more and doing more. With this in mind, we teach the children the knowledge they require, ensuring they have opportunities for the retrieval of knowledge and the chance to apply new skills during their learning.

Area of Learning Living	<u>EYFS</u>	Year 1	Year 2	Year 3	Voor 4	V	v .
Living			I Cai Z	<u>rear 5</u>	Year 4	<u>Year 5</u>	<u>Year 6</u>
Living							
things and their habitats na ar motor obtains an place of the place o	explore the latural world around them, making observations and drawing of nimals and plants. Inow some imilarities and differences between the latural world around them and latural mortasting environments, lrawing on their	Sold Carried Marie	Working scientifically: identifying and classifying. LT1: Explore and compare the differences between things that are living, dead, and things that have never been alive. Children have a selection of objects/ picture which they must sort into living, dead, never been alive. Through this children are able to generate ideas as to what	he	Working scientifically: Gathering and classifying data to answer questions. LT1: recognise that living things can be grouped in a variety of ways. Give children a selection of living things pictures and get the children to sort them in their own way, compare different groups within the class. Teacher can then give the children different categories for the children to sort their pictures	Working Scientifically Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations LT1: describe the differences in the life cycles of a	Working Scientifically Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. LT1: describe how living things are classified into broad groups according to

experiences	makes something	into. E.g.	mammal, an	common
and what has	dead/alive.	invertebrates/	amphibian, an	observable
	dead/anve.	vertebrates.	insect and a bird.	characteristics
been read in	6.67	Flowering and	ilisectalida bird.	and based on
class.	Working	non-flowering	Recap life cycle.	similarities and
		•	· · · · · · · · · · · · · · · · · · ·	
Understand some	scientifically:	plants.	Place knowledge	differences,
important	Using	1.5	on working wall.	including
processes and	observations and	W 11	Overfive lessons	microorganisms,
changes in the	ideas to suggest	Working	the children will	plants and
natural world	answers to	scientifically:	research the life	animals.
around them,	questions.	Making	cycle of a	
including the		systematicand	mammal, an	
seasons and	LT2: Identify that	careful	amphibian, an	
changing states of	most living things	observations	insect and a bird.	Introduce
matter.	live in habitats to	using equipment.	(of their choice)	classification and
matter:	which they are		On the fifth	why we need to
4	suited and	Gathering,	lesson the	classify animals.
	describe how	recordingand	children will write	Working wall
4.1	different habitats	classifying data to	an explanation	display. Put
	provide for the	answer questions.	using diagrams	picture of
- 100	basic needs of	2.81	comparing and	different birds
773	different kinds of	Recording	contrasting the	and ask the
	animals and	findings using	different life	children to discuss
25 100	plants, and how	keys.	cycles	what the same is
	they depend on	LT2: explore and		and what is
G	each other.	use classification	Working	different. The go
	Children to look	keys to help	scientifically	on to discuss the
0.00	at a variety of	group, identify	Identifying	importance of
	habitats. Consider	and name a	scientific	classification.
	what animals live	variety of living	evidence that has	
	there and why	things in their	been used to	
	this might be.	local and wider	support or refute	
	What do they	environment.		

need to be Children to go to The repeat ideas or provided with in **Discovery Walk** process for plants arguments. this habitat to and use LT2: describe the and survive. E.g. life process of microorganisms. classification kevs where do they to sort living reproduction in gettheirfood things they can some plants and Working source from? Are find. Children animals. Scientifically they dependent could design their on another own classification Dissect plant and recording data animal or plant in chart for other place on paper and results of the habitat? children to use in revising from increasing Discovery Walk. previous years. complexity using Working Add stigma, scientific scientifically: Working stamen, ovary diagrams and Observing closely scientifically: carpel, anther, labels, using simple **Gathering** and classification equipment. presenting data in keys, tables, **Gathering** and a variety of ways Research recording data to to help in reproduction of scatter graphs, help in answering answering plants. Then go bar and line around school questions. questions. graphs LT3: Identify and grounds and the Report on findings from children pick up name a variety of LT2: give reasons different enquiries using plants and for classifying animals in their displays or specimens of plants and presentations. plants and habitats, animals based on including LT3:recognise flowers and then specific microhabitats. that return to class characteristics. Children are environments can and discover how familiar with a change and that they reproduce this can habitat and from pllionation.from microhabitat. sometimes pose Classification tour. research. The The class walk

	Children can	dangers to living	draw a diagram	around the school
	explore Discovery	things.	showingthe	taking pictures o
	Walk to see what	Choose a way in	different features	animals and
	habitats they can	which an	of reproduction.	plants. Then in a
	find. Children can	environment		group present
No. 10	take i-pads to	might be being		classification
(49	take photos of	affected e.g.		examples,
freque	their habitats and	plastic pollution.		explaining to the
	use apps such as	Children to Children to		class why they
	'pic collage' to	generate		hav3 classified
20 00	add information.	questions,	p. 1	theirexamples
- ACCOUNT	Children design	research how this	The second	using which
- AU/00/00	and make their	environmentis		criteria.
7 8	own bug hotel	being affected	APRIL TO THE PERSON NAMED IN COLUMN	
2 10-	habitat in	and why. Children	12	
/I	Discovery Walk.	could then		
4	Children consider Children consider	produce a leaflet,		
1/1	what the animals	posteretc	-	
4 - 4	will need to	warning people	Sec. 1	
	survive and why	about the	Miles .	
100	this will be a	negative impact	17 %	
0.5	suitable habitat.	on living things in	List .	
		the environment.		
25 100	Working		2	
	scientifically:			
0-	Identifying and			
10.9	classifying.			
000 00	LT4: Describe	The same of the sa		
	how animals	100		
	obtain their food			
	from plants and	1.7		
	other animals,	See and the see an		
	using the idea of			

Dest Your Car	a simple food chain, and identify and name different sources of food. Children to create a simple food chain using pictures. E.g. grass, cow, human. Note: You do not need to use vocabulary such as producer, consumer etc. This is later on in the curriculum.		200	
Vocabulary	Dead Alive Habitat Micro-habitat Food chain Seashore Woodland Ocean rainforest	Classification Flowering plants Non-flowering plants Vertebrates Invertebrates Pollution	Reproduction, Pollination Stigma Ovary Anther Stamen carpel Mammal, Amphibian Insect Bird	Microorganism Classification Key Children will develop vocabulary through own research.

Resources

