



## Year group: Year 2, Summer 1 & 2

Area/topic: Living things and their habitats

(objectives from NC/ELG/Development matters)

### Working scientifically:

- \*Asking simple questions and recognising that they can be answered in different ways.
- \*Observing closely, using simple equipment.
- \*Identifying and classifying.
- \*Using their observations and ideas to suggest answers to questions.

## Living things and their habitats:

- \*Explore and compare the differences between things that are living, dead, and things that have never been alive (FI)
- \*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 (F2)
- \*Identify and name a variety of plants and animals in their habitats, including microhabitats (F3)
- \*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 (F4)

Prior learning	Future learning
Identify and name a variety of common wild and garden plants, including	*Recognise that living things can be grouped in a variety of ways. (Y4 - Living
deciduous and evergreen trees (YI - Plants)	things and their habitats)
*Identify and describe the basic structure of a variety of common flowering	*Explore and use classification keys to help group, identify and name a variety
plants, including trees (YI - Plants)	of living things in their local and wider environment. (Y4 - Living things and
*Identify and name a variety of common animals including fish, amphibians,	their habitats)
reptiles, birds and mammals. (YI - Animals including humans) *Identify and	*Recognise that environments can change and that this can sometimes pose
name a variety of common animals that are carnivores, herbivores and	dangers to living things. (Y4 - Living things and their habitats)
omnivores: (YI - Animals including humans)	*Construct and interpret a variety of food chains, identifying producers,
*Describe and compare the structure of a variety of common animals (fish,	predators and prey. (Y4 - Animals, including humans)
amphibians, reptiles, birds and mammals, including pets). (YI - Animals,	
including humans)	
*Observe changes across the four seasons. (YI - Seasonal changes)	
Working scientifically & encouraging scientific enquiry	

#### Observations

- \*Children will identify micro-habitats in the local environment and use equipment such as magnifying glasses to observe these.
- \*Children to explore and make observations of real life objects to decide if they were once living or have never been living.
- \*Children to make observations of real animal bones through the exploration of owl pellets or similar.

## Identifying and classifying

- \*Identify and sort real items into categories of living, once living but now dead and never been living. Children to record their findings.
- \*Classify items found in the local environment.

## Research using secondary resources

- \*Children to use books, photos and online resources such as Explorify to learn about animal habitats, living/not living things as well as food chains.
- \*Research food chains in the local environment through first-hand observations.

What pupils need to know or do to be secure			
Key knowledge and skills	Possible evidence		
*I can recognise and explain that plants and trees are aliwe and how I know, using my knowledge of plants/trees breathing and growing. (F1)  *I understand that fallen leaves, petals and branches are dead but that the tree remains alive. (F1)  *I can recognise that some animals eat other animals and that these animals are alive before they are eaten but dead once they have been caught by predators. I can recognise that parts of these animals may be found such as their skeletons and that these are no longer part of a living being. (F1 & F4)  *I can explain at least one characteristic of a living thing such as moving, breathing or eating and how these characteristics are no longer present if something is dead. (F1)  *I understand and can explain the word habitat.(F2)  *I can explain multiple characteristics of a living thing, including growing, eating, moving or reproducing, and use these to explain how I know if something is dead on has never been living. (F1)  *I can sort things into categories of living, dead and never been alive and explain how I know.(F1)  *I can explain how I know that something was once living but no longer is by identifying features. (F1)  *I can identify that some materials come from something that was once living whilst others have never been alive. Eg. Wood comes from something that was once alive whilst metal has never been living. (F1)  *I can make a model animal and explain why it has never been living comparing it to the real version of the animal by listing what the real animal would be able to do and what my model cannot. (F1)  *I can observe, explore and describe a micro-habitat which can be found in the local environment as well as identify what lives there. (F2 & F3)  *I can understand why some animals survive better in a micro-habitat and how the conditions can be different than the wider habitat. (F2)  *I can recognise some different habitats for wildlife and can explain how the habitats provide for the basic needs of animals and/or plants that live there. (F2)  *I can compar	There will be evidence of children meeting the 'I can' statements through:  *Quotes taken from discussions.  *Children can correctly use the key vocabulary during lessons.  *Children recording through drawing.  *Photographs of children's learning.  *Written explanations of understanding or adult scribing a child's understanding depending on individual needs.  *Children answering and asking questions.		

- $^*I$  can recognise that habitats can have different conditions for living and identify the typical conditions of each (F2)
- \*I can explain the features an animal has and how these help it to survive in its habitat. (C3 & F2)
- \*I can recognise and name **some** of the main habitats found in the world including aquatic, desert, forest, woodland, tundra or grassland. (F2)
- \*I understand ocean habitats and can identify the different zones of the ocean whilst describing the characteristics of each zone and how it is suited to certain animals and/or plants. (F2)
- \*I can identify and name plants and animals that live in each ocean zone. (F3)
- \*I can explain the characteristics and features of an animal and/or plant and how it is suited to an ocean habitat. (F2 & C3)
- $^*$ I can discuss how an animal and/or plant lives and survives in its habitat including how an animal obtains it's food, if they have the ability to camouflage or if they need oxygen to breathe. (F2 & F4)
- \*I can learn about and explain the features of a microhabitat for an ocean animal and how it is suited to the animals needs. (F3)
- \*I can independently represent a food chain of more than three links using arrows in the correct direction and labelling each part of the chain. (F4)
- \*I understand that humans are part of a food chain. (F4)
- \*I can correctly use the terms herbivore, omnivore and carnivore whilst explaining a food chain. (F4)
- \*I understand that a plant can make its own food whilst an animal cannot. (F4)
- \*I understand the vocabulary 'predator' and 'prey' and can use these words to discuss the animals/plants in a food chain. (F4)
- \*I understand the vocabulary 'producer' and 'consumer' whilst being able to identify and label these within a food chain. (F4)

## Key vocabulary

Habitat, micro-habitat, microclimate, natural environment, shelter, living, dead, never been alive, adaptations, camouflage, survival, food chain, consumer, producer, predator, prey, source of food, arctic, rain forest, ocean, tundra, coral reef, burrow, suited/suitable, adapted, adaptations, desert, polar, woodland, forest, names of living things in the habitats and micro-habitats children study, conditions, adjectives for conditions of habits e.g. damp, dry, light, dark,

Common misconceptions	Books linking to this area
*An animal's habitat is like its 'home'	*Shark lady by Jess Keating & Marta Alvarez Miguens
*Plants and seeds are not living	*The Gruffalo by Julia Donaldson (Create a food chain using the characters)
*All things that move are living e.g. fire, a bike etc.	*Many: The diversity of life on Earth by Nicola Davies and Emily Sutton
*Arrows in a food chain mean 'eats'	*Life in the ocean by Claure A.Nivola
*Deciduous trees are dead in the winter	*My friend Earth by Patricia Maclachlan
	*The big book of the blue by Yuval Zommer

	*Meerkat mail by Emily Gravett
	*Flotsam by David Wiesner
	*Oceanarium by Loveday Trinick & Teagan White
	*Earth's incredible oceans by Jess French & Claire McElfatrick
	*Lost and found by Oliver Jeffers
	*Dear Greenpeace by Simon James
Memorable first hand experiences	Opportunities for communication
*Children to visit a sea life centre to see the animals they have been learning	*Children to be given opportunities for communication with partners, groups and
about	whole class to discuss as completing practical activities and also to share
*Children to investigate owl pellets to find real bones of animals.	findings.
	*Children to share their thoughts and ideas during first-hand experiences:
	*Through the use of Explorify.

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Reasonable adjustments for pupils with SEND

Communication and Interaction	Cognition and Learning
*Visual aids, pictures of equipment with words labelled, word mats with pictures	*Opportunity for lote of hande on exploration and verbally sharing thoughts and
for key words in that lesson	ideas
*Freedom to explore scientific equipment and investigate in own way.	*Freedom to explore scientific equipment and processes.
*Hands on experiences to encourage communication and interaction with others.	*Pre teaching new vocabulary or concepts.
*Pre teaching any new vocabulary.	*Activities adapted if needed for safety and ease.
	*Visual aids, pictures of equipment, mats with key words and pictures
	*Learning recorded through photos and adult quotes, children not expected to write
	for recording their understanding.
	*Using working walls to aid learning and remind of previous learning.

#### Social, Emotional and Mental health

- \*Awareness of individual needs, any potential triggers within the curriculum and the child's background.
- \*Pre prepare children for any activity they could find triggering or difficult in some way.
- \*Practical activities or experiments to be completed within a smaller group or 1:1 if needed.
  - \*If the class are sharing their learning within a large group, take the child in a smaller focus group if they struggle with social situations.
    - \*Adjustments made where needed to suit individual.

## Sensory and Physical

- \*Adult support with any practical activities.
- \*Awareness of the individual's likes or dislikes and their own reactions to sensory activities.
- \*If a child enjoys sensory activities; then plan for this wherever possible within the lesson: