

## Living in Habitats

## Science Knowledge Organiser: Living Things and their Habitats

### I already know...

- ...that plants are **living** things that **grow**.
- ...to **look closely and record what I see** (pictures, simple lists, tallies).

### Vocabulary



**living** – something that can carry out life processes (move, grow, reproduce, etc.).

**dead** – something that was once living but is not living now.

**never been alive** – something that has not ever been living (e.g. rock, plastic).

**life processes** – the things living things do to stay alive (move, grow, respond, respire, reproduce, get energy, get rid of waste).

**habitat** – a place where plants and animals live.

**predator** – an animal that hunts other animals for food.

**food chain** – shows how living things get energy from food, starting with a plant.

**decomposer** – an animal that eats dead plants/animals and helps break them down.

### Key knowledge

- All **living** things do certain **life processes** (take a look at the table below!).

Move	Grow	Gain energy	Get rid of waste
Respond	Respire (breathe)	Reproduce	

- A **habitat** is where plants and animals **live**, and it must be suitable because living things need **food, water, air and shelter**.

- In a habitat, living things **depend on each other**.

- **Food chains** always start with a **plant**, because plants get their energy from the **sunlight**. Then energy moves from what is eaten to the eater (e.g. grass → snail → bird)



### Scientific enquiry



- I can **arrange** living things into **simple food chains** using arrows to show “is eaten by”.
- I can **find, observe** and **group** minibeasts by what they look like.

<input type="checkbox"/> <b>snail</b>  Where did you find this minibeast?	<input type="checkbox"/> <b>slug</b>  Where did you find this minibeast?	<input type="checkbox"/> <b>earthworm</b>  Where did you find this minibeast?
<input type="checkbox"/> <b>beetle</b>  Where did you find this minibeast?	<input type="checkbox"/> <b>woodlouse</b>  Where did you find this minibeast?	<input type="checkbox"/> <b>ladybird</b>  Where did you find this minibeast?

### Thinking questions



- How can you tell if something is living if it doesn't move very much (like a plant)?
- What would happen to animals in a habitat if there was no clean water?
- Why might a habitat be suitable for one animal but not for another?
- What might happen to a food chain if one organism was removed?

### I should now be able to...

- Tell the difference between **living, dead, and never been alive** things.
- Explain what a **habitat** is.
- Name some plants/animals that live in a **seaside habitat**.
- Use the words **herbivore, carnivore, omnivore** correctly.
- Build and talk through a simple **food chain** using arrows.

## Growth and Survival

## Science Knowledge Organiser: Animals, including Humans

### I already know...

- ...that animals are living things and I can name some common animals.
- ...how to use simple charts/tallies to record what we find out.

### Vocabulary



**offspring** – a baby animal.

**adult** – a fully grown animal.

**reproduce** – to have babies.

**life cycle** – the stages a living thing goes through as it grows.

**egg** – what some animals lay; the baby grows inside and then hatches out.

**live young** – a baby animal born from its mother (not from an egg).

**pregnant / gestation** – when a baby is growing inside its mother; gestation is how long this lasts.

**habitat / environment** – the place an animal lives that provides what it needs (food, water, air, shelter).

**oxygen** – a gas in air (and in water) that animals need to stay alive.

### Key knowledge

- All animals, including humans, **have offspring**. If animals did not have babies, that kind of animal could **die out (become extinct)**.
- Animals have babies in two main ways: some **lay eggs** and some **give birth to live young**.
- All animals (including humans) need food, water and oxygen to survive. Food gives energy to **move and grow**.
- Animals need to live in an environment that **suits** them. If an animal is in the wrong place, it may not be able to find the right **food, water, oxygen or shelter**.
- Humans stay healthier when they eat a **variety** of foods from different **food groups** (a balanced diet).



### Scientific enquiry



We can **sort and record** animals into groups (e.g. animals that lay eggs / give birth) to help answer questions.

<b>Dog</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth	<b>Whale</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth	<b>Lizard</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth	<b>Chicken</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth
<b>Parrot</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth	<b>Alligator</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth	<b>Goat</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth	<b>Toad</b>  <input type="checkbox"/> Lay eggs <input type="checkbox"/> Give birth

### Thinking questions



- Do all baby animals look like their parents? Why might some look different?
- Why do some animals lay lots of eggs, but others only have one baby at a time?
- Do all animals need the same type of food? Why/why not?
- What do you think would happen if a cow and a fish swapped homes?

### I should now be able to...

- match some baby animals to their parents (e.g. calf–cow, chick–chicken).
- sort animals into lay eggs or give birth to live young.
- say the three basic needs for survival.
- explain why different habitats suit different animals.
- measure and record a result neatly (e.g. height in cm) to answer a question.