

## What is Science?

Science is a thrilling adventure where curious explorers ask questions and find answers about the world. Scientists use tools, conduct experiments and make discoveries to understand how things work.

## What qualities does a Scientist have?

Respectful, curious, investigative, resilient, imaginative

## What do I already know?

I know that animals can be classified into groups, including **mammals, fish, amphibians, reptiles** and **birds**.

Animals can also be classified by their diets: **carnivores, herbivores** and **omnivores**.

## What equipment will help me?

- Magnifying glasses
- Magnification boxes
- Binoculars
- Animal/plant identification keys
- Books and online sources



Every Child a Scientist.



Investigative skills	As a scientist, I can.....	Enquiry question and knowledge						
	<p>Observe and identify a variety of plants and animals (including bees) in their habitats (including microhabitats).</p> <p>Record my observations of living things and habitats.</p> <p>Interpret and communicate my findings.</p>	<p>What type of animal is a bee?</p> <p>Which plants and animals live within our school grounds?</p> <p>Which microhabitats are on our school grounds?</p>						
	<p>Observe things that are living, dead and things that have never been alive (including bees)</p> <p>Identify and group things that are living, dead, and things that have never been alive.</p>	<p>How do know if something is living?</p> <table border="1"> <thead> <tr> <th>Living</th><th>Dead</th><th>Never Alive</th></tr> </thead> <tbody> <tr> <td></td><td></td><td></td></tr> </tbody> </table>	Living	Dead	Never Alive			
Living	Dead	Never Alive						
	<p>Classify and organise living things in a food chain.</p> <p>Identify the role that bees play in a food chain.</p>	<p>How do know if something is living?</p> <p>What is a food chain?</p>						
	<p>Ask questions about how living things are suited to their environment.</p> <p>Research using books and online sources to learn about different habitats and living things around the world.</p>	<p>How is a _____ suited to its habitat?</p> <p>In which habitat do _____ live?</p>						

## Wider thinking Diversity/inspirational people and jobs.

Tamsin Harris (local beekeeper)  
David Attenborough  
Steve Backshall  
Michaela Strachan

## Tier 3 Vocabulary

Habitat  
Savannah  
Grassland  
Microhabitat  
Food chain  
Producer  
Consumer  
Predator  
Prey

Abdomen  
Thorax  
Antennae  
Pollen basket

## Key Question? (Assessment question)

Where would we be without bees?



stem



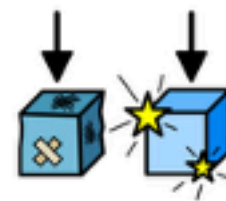
soil



nutrients



grow



conditions



antennae

### Enquiry question and key vocabulary

What conditions are best for plants to grow?

How do the parts of a plant help it grow?

How do bees help pollination?

What plants can we eat?

What do plants need to survive?

How is water transported through plants?



pollination



abdomen



fertilisation



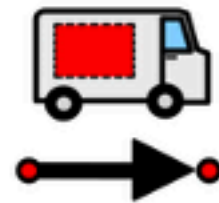
waste



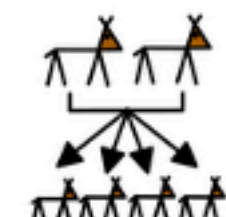
nectar



pollen



transport



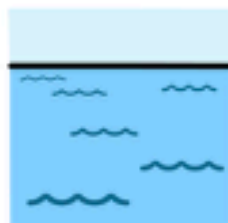
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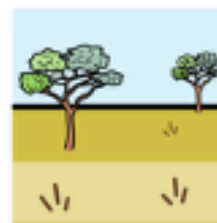
habitat



microhabitat



ocean



savannah



rainforest



antennae

### Enquiry question and key vocabulary

How are animals suited to their environment?

How do we know if something is living?

What is a microhabitat

What is a food chain?

How do bees make honey?

What is endangering bees?

How many species of bees are there?

Have birds evolved from dinosaurs?



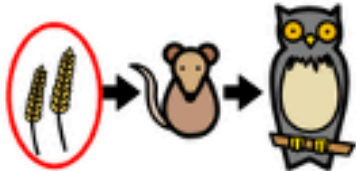
grassland



abdomen



desert



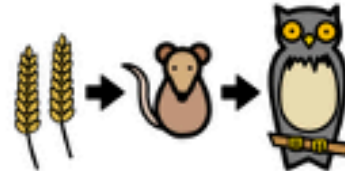
producer



prey



predator



food chain



life cycle