

## Butterflies Class Medium Term Planning for Science Summer 2024, Minibeasts

Topic: Minibeasts	Looking at images, stories and songs about different minibeasts.
• Identify that most living things live in habitats to which	Learning about habitats and adaptations, life cycles, diet and ways of feeding.
they are suited and describe how different habitats	Describing the features of specific minibeasts: fast, slow, crawls, flies, swims, lots of legs,
provide for the basic needs of 'minibeasts'	no legs, webs, shells, colours, camouflage
Identify basic food chains	Cross curricular: English – stories about minibeasts, writing tasks, building vocabulary
<ul> <li>Investigate and describe the basic needs of</li> </ul>	Maths – symmetry, pattern, colour, counting, pairs and doubles
invertebrates for survival (water, food and air)	Art - creating representations of insects
• Identify and name a variety of common animals that are	PE - moving like a minibeast
invertebrates.	Health and safety - weekly reminders about washing hands, touching the insects, not hurting the insects, not putting fingers in mouths etc.

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6
Snails	Bug hunting	Worms	Bug hunting - tree shake	Bees	Bug hunting – creature cafe
Observe a real snail. Use magnifying glasses and the microscope (plugged into the big screen). What do they eat? How do they move? Are they fast or slow?	Visit the sensory garden or allotment with trays and containers for looking at bugs. Use identification keys.	Looking at worms in a wormery. Finding worms in a flower bed. What do they eat? How do they move?	Lay a large white sheet under a tree and shake to see what creatures fall out. Observe and identify.	Learn about bees. What colour are they? What do they make? Tasting and smelling honey.	Investigating the creatures who have visited the "café". Identify. What do they like to eat?

Lesson 7	Lesson 8	Lesson 9	Lesson 10	Lesson 11	Lesson 12
Frogs and frog spawn	Pond dipping?	Butterflies and caterpillars	Bug hunting – using a microscope	Spiders	Bug hunting
Look at videos of frogs and frog spawn. Look at the lifecycle of a frog. Frog spawn sensory tray with water-beads.	Visiting a pond or stream - or exploring pond water in class. Identify creatures. Use magnifying glasses and microscope.	The life cycle of a butterfly - attention autism session.	Another visit to an outside area for bug hunting. Focus on underneath rocks and dead-wood. Identification.	Exploring spiders. Dropping a fluffy spider down a drain. Making wooly spider webs.	In school or off site visit to explore creepy crawlies. How many bugs can we identify now?

Substantive Knowledge (Content)	Disciplinary Knowledge (Skills)		
EYFS	EYFS		
Make comments about what they have heard and ask questions to clarify their understanding.			
Explore the natural world around them, making observations and drawing pictures of animals and plants.	EYFS Working Scientificially		
Know some similarities and differences between the natural world around them and	<ul> <li>Explore and respond to different natural phenomena in their setting and on trips</li> </ul>		
contrasting environments, drawing on their experiences and what has been read in class.	• Realise that their actions have an effect on the world, so they want to keep repeating them.		
Understand some important processes and changes in the natural world around them, including	<ul> <li>Repeat actions that have an effect.</li> </ul>		
the seasons and changing states of matter.	<ul> <li>Plan and think ahead about how they will explore or play with objects.</li> </ul>		
	• Guide their own thinking and actions by referring to visual aids or by talking to themselves while playing.		
KS1 Science National Curriculum	<ul> <li>Bring their own interests and fascinations into early years settings.</li> </ul>		
Asking Questions and carrying out Fair and Competitive Tests	<ul> <li>Respond to new experiences that you bring to their attention.</li> </ul>		
Asking simple questions and recognising that they can be answered in different ways.	<ul> <li>Talk about what they see, using a wide vocabulary.</li> </ul>		
Performing simple tests.	<ul> <li>Use pretend play to think beyond the 'here and now'</li> </ul>		
Children can:	<ul> <li>Know more, so feel confident about coming up with their own ideas.</li> </ul>		
<b>a</b> explore the world around them, leading them to ask some simple scientific questions about	<ul> <li>Make more links between those ideas.</li> </ul>		
how and why things happen;	Concentrate on achieving something that's important to them. They are increasingly able to		
<b>b</b> begin to recognise ways in which they might answer scientific questions;	control their attention and ignore distractions.		
${f c}$ ask people questions and use simple secondary sources to find answers;	<ul> <li>Engage in non-fiction books related to science.</li> </ul>		
<b>d</b> carry out simple practical tests, using simple equipment;	• Listen to and talk about selected non-fiction to develop a deep familiarity with new knowledge		
e experience different types of scientific enquiries, including practical activities;	and vocabulary.		
${f f}$ talk about the aim of scientific tests they are working on.	Make some simple predictions verbally or using AAC		
	<ul> <li>Record findings using a scribe, pictures, photographs or symbols</li> </ul>		
Observing and Measuring Changes	<ul> <li>Alert/attend/anticipate/respond to/initiate activities related to investigations.</li> </ul>		
Observing closely, using simple equipment.	Sort by obvious differences		

Children can: a observe the natural and humanly constructed world around them; b observe changes over time; d make careful observations, sometimes using equipment to help them observe carefully. Identifying, Classifying, Recording and Presenting Data Identifying and classifying. Gathering and recording data to help in answering questions. Children can: a use simple features to compare objects, materials and living things; b decide how to sort and classify objects into simple groups with some help; c record and communicate findings in a range of ways with support; Children can: a use simple features to compare objects, materials and living things; b decide how to sort and classify objects into simple groups with some help; c record and communicate findings in a range of ways with support; d decide how to sort and classify objects into simple groups with some help; c record and communicate findings in a range of ways with support; d sort, group, gather and record data in a variety of ways to help in answering questions such	<ul> <li>Begin to measure and compare with support in non-standard units. With prompting, ask a few simple questions about the world around</li> <li>KS1</li> <li>KS1 Working Scientifically</li> <li>Ask simple questions.</li> <li>Observe closely, using simple equipment.</li> <li>Perform simple tests.</li> <li>Identify and classify.</li> <li>Use observations and ideas to suggest answers to questions.</li> <li>Gather and record data to help in answering questions.</li> <li>Begin to recognise that questions be answered in different ways (different types of enquiry including - observing changes over time, noticing patterns, grouping and classifying, carrying out simple comparative tests, finding things out from secondary sources).</li> </ul>
<ul> <li>c record and communicate findings in a range of ways with support;</li> <li>Children can: <ul> <li>a use simple features to compare objects, materials and living things;</li> <li>b decide how to sort and classify objects into simple groups with some help;</li> <li>c record and communicate findings in a range of ways with support;</li> </ul> </li> </ul>	<ul> <li>Use observations and ideas to suggest answers to questions.</li> <li>Gather and record data to help in answering questions.</li> <li>Begin to recognise that questions be answered in different ways (different types of enquiry including - observing changes over time, noticing patterns, grouping and classifying, carrying</li> </ul>
Drawing Conclusions, Noticing Patterns and Presenting Findings Using their observations and ideas to suggest answers to questions. Children can: use simple and scientific language;	

## Progression of Learning

'Link It'	'Learn It'	'Check It'	'Show It'	'Know It'
Applying knowledge and	Identifying different	Describing the features of	Discuss how the features are	Compare insects to humans:
observations of the world	minibeasts	different minibeasts	adaptations for survival	homes, diet, life cycles
around them relating to				
minibeasts				