

## Year 2 - Progression of Knowledge and Skills Science

Term	Knowledge	Skills
<p style="text-align: center;"><b>Autumn 1</b> <b>Topic: Materials Testing?</b></p>	<ul style="list-style-type: none"> <li>• To identify and compare the suitability of a variety of everyday materials including wood, metal, plastic, glass, brick, rock, paper, cardboard for particular uses.</li> <li>• I can find out how the shape of solid objects made from materials can be changed by squashing, bending, twisting and stretching.</li> </ul>	<ul style="list-style-type: none"> <li>• Compare and group materials.</li> <li>• Use research for understanding.</li> <li>• Comparative tests.</li> <li>• Notice patterns between materials.</li> <li>• Comparative test.</li> <li>• Identify and classify materials.</li> <li>• Labelled diagrams</li> <li>• Draw basic conclusions</li> <li>• Carry out simple comparative tests.</li> <li>• Predicting best material</li> <li>• Evaluate findings of tests</li> </ul>
<p style="text-align: center;"><b>Autumn 2</b> <b>Topic: Living things and their habitats</b></p>	<ul style="list-style-type: none"> <li>• Explore and compare the differences between things that are living, dead and things that have never been alive.</li> <li>• Identify most living things live in habitats to which they are suited and describe how different habitats provide for basic needs of different kinds of animals and plants and how they depend on each other.</li> <li>• Identify and name a variety of plants and animals in their habitat, including microhabitats.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify habitats</li> <li>• Research facts about animals</li> <li>• Find out what animals eat.</li> <li>• Ask questions</li> </ul>

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	<ul style="list-style-type: none"> <li>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.</li> </ul>	
<p style="text-align: center;"><b>Spring 1</b> <b>Topic: Animals including Humans</b></p>	<ul style="list-style-type: none"> <li>I notice that animals including humans have offspring which grow into adults.</li> <li>I can describe the basic needs of animals including humans for survival.</li> <li>I can describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene</li> </ul>	<ul style="list-style-type: none"> <li>Observe lifecycle of an animal.</li> <li>Research</li> <li>Asking simple questions and recognising that they can be answered in different ways.</li> <li>Observing closely, using simple equipment Performing simple tests</li> <li>Identifying and classifying</li> <li>Using their observations and ideas to suggest answers to questions</li> <li>Gathering and recording data to help in answering questions.</li> </ul>

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Term	Knowledge	Skills
<p style="text-align: center;"><b>Spring 2</b> <b>Topic: Plants</b></p>	<ul style="list-style-type: none"> <li>• Know the key parts of a flower.</li> <li>• Describe how seeds and bulbs grow into mature plants.</li> <li>• Describe how plants need water, light and a suitable temperature to grow and stay healthy.</li> </ul>	<ul style="list-style-type: none"> <li>• Label parts of a flower.</li> <li>• Identify plants using observations and identify plants on environments.</li> <li>• Observe over time how plants grow.</li> <li>• Ask questions to investigate.</li> <li>• Make basic predictions.</li> <li>• Carry out simple tests.</li> <li>• Look for patterns and compare findings.</li> <li>• Record results.</li> <li>• Communicate how plants grow.</li> </ul>
<p style="text-align: center;"><b>Summer 1</b> <b>Topic: Animals including Humans ext</b></p>	<ul style="list-style-type: none"> <li>• Notice that animals including humans have offspring which grow into adults.</li> <li>• Describe the basic needs of animals including humans for survival.</li> <li>• Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene</li> </ul>	<ul style="list-style-type: none"> <li>• Observe lifecycle over time.</li> <li>• Research</li> <li>• Asking simple questions and recognising that they can be answered in different ways.</li> <li>• Observing closely, using simple equipment Performing simple tests</li> <li>• Identifying and classifying</li> </ul>

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<p>Summer 1 Topic: Animals including Humans ext</p>		<ul style="list-style-type: none"> <li>• Using their observations and ideas to suggest answers to questions</li> <li>• Gathering and recording data to help in answering questions.</li> </ul>
<p>Summer 2 Topic: Plants ext</p>	<ul style="list-style-type: none"> <li>• To observe and describe how seeds and bulbs grow into mature plants.</li> <li>• Find and describe how plants need water, light and a suitable temperature to grow and stay healthy.</li> <li>• Recap key concepts.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify plants using observations and identify plants on environments.</li> <li>• Observe over time how plants grow.</li> <li>• Ask questions to investigate.</li> <li>• Make basic predictions.</li> <li>• Carry out simple tests.</li> <li>• Look for patterns and compare findings.</li> <li>• Record results.</li> <li>• Communicate how plants grow.</li> </ul>