



# Boyne Hill Infant and Nursery School – Curriculum Outline Plans

Excite - Inform - Engage - Challenge - Inspire

## SCIENCE

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
FS1	<b>The Natural World</b>					
	<ul style="list-style-type: none"> <li>Learn about their own home and the things nearby through discussion, using a wide vocabulary and pictures. They will bring in photos and share what they know about looking after pets and themselves.</li> </ul> <p><b>(Living things and their habitats)</b></p> <ul style="list-style-type: none"> <li>Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices through discussion and choosing fruit options at snack time.</li> <li>Look at nocturnal animals when focusing on the difference between day and night and exploring hibernation when looking at seasonal changes.</li> </ul> <p><b>(Animals, including humans)</b></p> <ul style="list-style-type: none"> <li>Explore collections of materials with similar and/or different properties, such as the use of warm clothes and waterproof shoes in the autumn.</li> <li>Use all their senses in hands-on exploration of natural materials, exploring and investigating natural materials such as acorns, conkers and fallen leaves through the use of a nature table.</li> </ul> <p><b>(Materials)</b></p>	<ul style="list-style-type: none"> <li>Understand the key features of the life cycle of a plant and an animal through the <i>Living eggs</i> visit into school and through a growing cress experiment.</li> <li>Plant seeds and care for growing plants, talking about what they see, using a wide vocabulary through a growing cress experiment.</li> </ul> <p><b>(Plants)</b></p> <ul style="list-style-type: none"> <li>Begin to understand the need to respect and care for the natural environment and all living things through studies of farms and farm animals.</li> </ul> <p><b>(Living things and their habitats)</b></p> <p><b>(Animals, including humans)</b></p> <ul style="list-style-type: none"> <li>Talk about materials and changes they notice through seasonal changes and freezing/thawing water experiment.</li> </ul> <p><b>(Materials)</b></p>	<ul style="list-style-type: none"> <li>Begin to understand the need to respect and care for the natural environment and all living things through being aware of saving water, recycling and not wasting food.</li> <li>Explore how things work and explore and talk about different forces they feel through the investigation of transport – wheels, floating and sinking and making their own basic boats and creating musical instruments.</li> <li>Use all their senses in hands-on exploration of natural materials through nature walks</li> </ul> <p><b>(Materials)</b></p> <ul style="list-style-type: none"> <li>Understand the key features of the life cycle of a plant and an animal through the topic of caterpillars and growing a bean from seed.</li> </ul> <p><b>(Plants) (Animals, including humans)</b></p> <ul style="list-style-type: none"> <li>Begin to understand the need to respect and care for the natural environment and all living things through an investigation of wild animals and underwater animals. They will use books and technology to develop their understanding further.</li> </ul> <p><b>(Animals, including humans) (Living things and their habitats)</b></p>			

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
FS2	<b>The Natural World</b>							
	<p><b><u>Changing seasons:</u></b> <b>Autumn treasures</b></p> <p>Collecting autumnal objects on the school grounds and sorting them into groups based on their similarities.</p>	<p><b><u>Changing seasons:</u></b> <b>Whatever the weather</b></p> <p>Exploring different weather types and creating a class weather chart.</p>	<p><b><u>Changing seasons:</u></b> <b>Winter wildlife</b></p> <p>Discovering how animals adapt to winter weather and learning how to hold and use scissors correctly.</p> <p><b><u>I am a scientist:</u></b></p> <p>Encouraging curiosity, the children explore the natural world through hands-on investigation, discovering how processes and changes occur around us.</p>	<p><b><u>Changing seasons:</u></b> <b>Springtime magic</b></p> <p>Recognising changes outside in spring and exploring the life cycle of a butterfly through dance.</p>	<p><b><u>Changing seasons:</u></b> <b>Sandcastle science</b></p> <p>Investigating how to mix sand and water to create sandcastles.</p> <p><b><u>Our beautiful planet:</u></b></p> <p>Exploring outdoors, children discover the wonders of the natural world. They plant seeds, mix plants in the mud kitchen and learn to care for our beautiful planet.</p>	<p><b><u>Changing seasons:</u></b> <b>Summer senses</b></p> <p>Recognising changes outside in summer and experiencing the sensations of the seaside.</p> <p><b><u>Animal adventures:</u></b></p> <p>Exploring animals big and small on the school grounds and further afield, identifying similarities and differences and sorting animals into groups.</p>		
Key Vocabulary	autumn season weather	Symbol weather	autumn hibernation season weather winter dark daytime float freeze	light loud melt nighttime pull push quiet sink volume	growth season spring weather	mixture season summer care Earth flower grow human-made leaf natural plant roots seed stem	hearing seaside season sense sight smell summer taste touch alive farm home	non-living sort compare group minibeast ocean woodland desert grow move polar zoo

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 1</b>	<p><b>Forces &amp; Space:</b> <b>Seasonal changes</b></p> <ul style="list-style-type: none"> <li>Exploring how seasonal changes affect trees, weather patterns and daylight hours.</li> </ul>	<p><b>Materials:</b> <b>Everyday materials</b></p> <ul style="list-style-type: none"> <li>Comparing and grouping materials based on their properties.</li> </ul>	<p><b>Animals:</b> <b>Sensitive bodies</b></p> <ul style="list-style-type: none"> <li>Identifying and naming body parts and conducting practical activities with the senses to spot patterns and answer questions.</li> </ul>	<p><b>Animals:</b> <b>Comparing animals</b></p> <ul style="list-style-type: none"> <li>Comparing and grouping animals based on similarities and differences in their characteristics, physical features and diets.</li> </ul>	<p><b>Plants:</b> <b>Introduction to plants</b></p> <ul style="list-style-type: none"> <li>Identifying and naming a variety of plants and investigating if beans need water for growth.</li> </ul>	<p><b>Making connections:</b> <b>Investigating science through stories</b></p> <ul style="list-style-type: none"> <li>Consolidating knowledge of plants and animals through picture books and practical investigations.</li> </ul>
<b>Key Vocabulary</b>	deciduous tree evergreen tree season weather	absorbent fabric glass group material metal object plastic rock tough waterproof wood	compare group hearing pattern sense(s) sight smell taste touch	amphibian bird carnivore compare diet difference fish group herbivore mammal observe omnivore reptile scientist similarity	bulb deciduous diagram evergreen flower fruit garden plants group growth leaf measure observe roots seed stem trunk wild plants	amphibian bird carnivore compare diet difference fish group herbivore mammal material object omnivore pattern reptile season similarity trunk waterproof weather
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 2</b>	<p><b>Living things:</b> <b>Habitats</b></p> <ul style="list-style-type: none"> <li>Discovering plants and animals in a range of habitats.</li> </ul>	<p><b>Living things:</b> <b>Microhabitats</b></p> <ul style="list-style-type: none"> <li>Asking questions about minibeast and using scientific enquiry</li> </ul>	<p><b>Materials:</b> <b>Uses of everyday materials</b></p> <ul style="list-style-type: none"> <li>Comparing the suitability of materials</li> </ul>	<p><b>Animals, including humans:</b> <b>Life cycles and health</b></p> <ul style="list-style-type: none"> <li>Identifying the stages of animal life cycles</li> </ul>	<p><b>Plants:</b> <b>Plant growth</b></p> <ul style="list-style-type: none"> <li>Investigating seeds, bulbs and plants and recognising the conditions required for</li> </ul>	<p><b>Making connections:</b> <b>Plant-based materials</b></p> <ul style="list-style-type: none"> <li>Consolidating knowledge of materials and plant</li> </ul>

		methods to find answers.	by carrying out tests and recording data.	and carrying out tests to record growth.	germination and healthy plant growth.	growth through enquiry.
<b>Key Vocabulary</b>	alive carnivore dead depend diet energy food chain growth habitat herbivore life processes mammal omnivore predator prey shelter sort	food chain microhabitat minibeast research results test	elastic fabric flexible glass material metal object plastic property rock suitable wood	basic needs egg health hygiene life cycle live young pupa spawn survive teenager toddler tadpole	bulb diagram energy flower germinate growth leaf life cycle nutrient observe seed shoot stem	alive dead fabric flexible germinate growth invention life processes material plastic property results seed suitable test waterproof wood