

# Year R: : The Natural World Our Learning Leaves Curriculum – Science

	Required prior knowledge	Knowledge to be explicitly taught	How knowledge will be built upon
Substantive knowledge	<ul style="list-style-type: none"> <li>Closely observes what animals, people and vehicles do.</li> <li>Visually scans environment for novel, interesting objects and events.</li> </ul>	<p><b>Seasons</b></p> <ul style="list-style-type: none"> <li>There are four <b>seasons: spring, summer, autumn and winter</b></li> <li>Children describe the weather as sunny, windy, rainy, snowy, cloudy &amp; foggy.</li> <li>Notices detailed features of objects in their environment.</li> </ul> <p><b>Animals and Plants</b></p> <ul style="list-style-type: none"> <li>Notices detailed features of objects in their environment.</li> <li>Names simple farm yard animals and jungle animals.</li> </ul>	<p><b>Seasons</b></p> <ul style="list-style-type: none"> <li>The <b>weather</b> changes gradually as we move from season to season</li> <li>The weather can change rapidly in one day</li> <li>Recognise differences between four seasons in terms of living things</li> <li>Changing seasons have an effect on the natural world around them.</li> </ul> <p><b>Animals and plants</b></p> <ul style="list-style-type: none"> <li>Some environments differ from the one in which they live. Cold lands (such as the Arctic Tundra) are barren landscapes, glaciers and huge ice sheets, a hot land (such as a desert) has low rainfall, scanty vegetation and extreme temperatures and a wet land (such as a mangroves or sea grass beds) has soggy soils, water-loving plants and water. Rainforests are hot and wet and have very dense vegetation.</li> <li>The life cycle of a human, chicken, frog, butterfly, and bean.</li> <li>A place an animal lives is called its habitat. Animals have adapted to survive in their habitats</li> </ul>
Disciplinary knowledge	<ul style="list-style-type: none"> <li>Representing their experiences in play</li> <li>Using senses to explore the world around them</li> <li>Engaging in open-ended activity</li> <li>Paying attention to details</li> </ul>	<p><b>Seasons</b></p> <ul style="list-style-type: none"> <li>Children talk about what they see, using a wide vocabulary</li> </ul> <p><b>Animals and plants</b></p> <ul style="list-style-type: none"> <li>Plant seeds and care for growing plants</li> <li>Respect and care for the natural world and all living things</li> </ul>	<p><b>Seasons</b></p> <ul style="list-style-type: none"> <li>Describe what they see, hear, feel whilst outside</li> <li>Gather information from texts/books/images</li> <li>Complete daily calendar</li> <li>Observe closely using scientific equipment</li> <li>Gathering and recording data to answer questions</li> </ul> <p><b>Animals and plants</b></p> <ul style="list-style-type: none"> <li>Observe closely using scientific equipment</li> <li>Gathering and recording data to answer questions.</li> <li>Explore the natural world around them, making observations and drawing pictures of animals and plants.</li> <li>Understand 'why' questions, make comments about what they have heard and ask questions to clarify their thinking.</li> </ul>
Key Drivers	<p><b>Culture and Diversity</b> - which helps pupils to develop enquiring minds about the wider world –</p> <ul style="list-style-type: none"> <li>Children feel different weather and explore it's effect on our local community.</li> </ul> <p><b>Environment and Community</b> - which helps to instil in our pupils a respect for our environment and for our local and wider communities –</p> <ul style="list-style-type: none"> <li>Children explore their natural world with awe and wonder and create an appreciation for the natural world.</li> </ul> <p><b>Creative arts and physical development</b> - which helps our pupils to express themselves and excel as holistic learners. –</p> <ul style="list-style-type: none"> <li>Children immerse themselves in the feeling of the weather. They use their creative skills to express how the weather feels to them through drawing, painting and constructing. This allows them to think deeply, from a different perspective, about the environment and its weather.</li> <li>Children use their senses to describe the weather.</li> </ul> <p><b>Learning to learn</b> - which helps pupils to concentrate and focus and build resilience as learners –</p> <ul style="list-style-type: none"> <li>Children are encouraged to ask questions to find out more and to check what has been said to them.</li> </ul>		

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