



Reception Science Curriculum Overview

Based on White Rose Science Scheme (adapted to suit needs of Reception cohort)

	Autumn		Spring		Summer		Curriculum Statements and Assessment points
Reception	All about me	Festivals and Celebrations	Stories Traditional Tales	Stories from around the world	Amazing Animals	What's in the Garden	
<p><i>These themes may be adapted at various points to allow for children's interests to flow through the provision</i></p> <p>Disciplinary knowledge</p> <p>(How are you teaching it?)</p> <p>(Skills)</p>	<p><u>Learn and explore through:</u></p> <p>Discussions in class Sharing our own experiences Sharing books – fiction and non-fiction Exploring artefacts Asking questions Role play and small world play Videos and Photographs First hand experiences – exploring seasonal veg Using outdoor area Exploring the natural world around them Introducing new vocabulary Visit from school nurse/Dental nurse</p>		<p><u>Learn and explore through:</u></p> <p>Discussions in class Sharing our own experiences Sharing books – fiction and non-fiction Exploring artefacts Asking questions Role play and small world play Videos and Photographs First hand experiences – capacity sand and waterplay Using our outdoor area Exploring the natural world around them Introducing new vocabulary Comparing different countries tour own through stories</p>		<p><u>Learn and explore through:</u></p> <p>Discussions in class Sharing our own experiences Sharing books – fiction and non-fiction Exploring artefacts Asking questions Role play and small world play Videos and Photographs First hand experiences Exploring the natural world around them Introducing new vocabulary Caring for our school animals Forest school Activities Planting activities in outdoor area</p>		<p><u>Development Matters – Reception</u></p> <p>Communication and Language</p> <ul style="list-style-type: none"> - Learn new vocabulary and use in different contexts - Ask questions to find out more & check what has been said to them -Articulate their ideas and thoughts in sentences. -Describe events in some detail -Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen <p>Personal, Social and Emotional Development</p> <p>Know and talk about the different factors that support their overall health and wellbeing:</p> <ul style="list-style-type: none"> - regular physical activity - healthy eating - toothbrushing - being a safe pedestrian - sensible amounts of 'screen time' - having a good sleep routine <p>Understanding the World</p> <ul style="list-style-type: none"> -Explore the natural world around them -Describe what they see, hear and feel while they are outside -Recognise some environments that are different to the one in which they live -Understand the effect of changing seasons on the natural world around them
<p>Substantive knowledge</p> <p>(What are you teaching? /what are children learning?)</p> <p>(Knowledge)</p>	<p><u>Me and my small world</u></p> <p>Identify and name body parts Identify and name animals that live on a farm</p> <p><u>What's in my basket</u></p>	<p><u>Let's go outside</u></p> <p>Explore the natural area – using our outdoor area and local area Notice seasonal changes Observe and name weather</p>	<p><u>Changes in Winter</u></p> <p>Observe and discuss seasonal changes in winter Introduce polar animals – polar bears need thick fur Introduce term hibernation</p>	<p><u>Watch it Grow</u></p> <p>Explore the seasonal changes that happen in spring.</p> <p>Plant and care for seeds understanding what these need to grow. They will observe these grow and</p>	<p><u>From City to Sea</u></p> <p>Observe a variety of different cities, towns and villages, focusing on their key features – similarities and differences.</p>	<p><u>Happy and Healthy</u></p> <p>Look at a variety of foods and a varied diet.</p> <p>Understand the importance of exercise to stay fit. Discuss the immediate effects of</p>	

	<p>Explore real life fruit and vegetables Seasonal vegetables – pumpkins and squash Describe by shape, size, colour</p> <p><u>Senses</u> Name senses Use senses to explore Make playdough with scents added Use magnifying glasses to explore Complete a listening walk</p>	<p><u>What's changed</u> Practically explore and observe different changes Melting Safety around heat sources</p> <p><u>Night and Day</u> Learn term nocturnal Name nocturnal animals Understand day and night Explore light sources – using torches and making shadows</p>	<p><u>Let it Flow</u> Investigate floating and sinking Properties of wet and dry sand Capacity of varying containers – address misconceptions of taller holding more</p> <p><u>From Dessert to Jungle</u> Understand contrasting climates and habitats Include dessert and jungle Animals in habitats</p>	<p>change over time.</p> <p>Sustainability is introduced and children can observe the process of decay over time.</p> <p><u>Animal Detectives</u> Explore and sort animals based on their simple features</p> <p><u>Pushes and Pulls</u> Children should describe forces as 'pushes' and 'pulls'. Explore how objects move on different surfaces such as ramps. Explore magnets attraction and repulsion in the simple form and language of pushes and pulls</p>	<p>Key features of ocean habitats and animals which live underwater.</p> <p>Learn how pollution can impact the natural world and living things</p> <p><u>Look All Around</u> Observe seasonal change – similarities and differences in our environment</p> <p><u>Test it out</u> Children identify objects and materials and compare their suitability for a particular purpose e.g. materials for shelter outside How can we solve the problem</p>	<p>exercise on their bodies.</p> <p>Discuss the health professionals that help to keep us happy and healthy, such as a doctor or dentist.</p> <p><u>Our Wonderful World</u> Environmental topics such as recycling and increasing pollinators.</p> <p><u>We're going on an animal hunt</u> Explore minibeasts in more detail, look at the features of these creatures and notice similarities and differences between them. Draw on previous knowledge to suggest which animals live in certain habitats</p>	<p style="text-align: center;"><u>Early Learning Goals</u></p> <p><u>Listening, Attention and Understanding</u> Make comments about what they have heard and ask questions to clarify their understanding</p> <p><u>Managing Self</u> Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices</p> <p><u>The Natural World</u> Explore the natural world around them, making observations and drawing pictures of animals and plants</p> <p>Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class</p> <p>Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter</p>
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