

Reception Science Builder – The Natural World (by the end of)	
Early Learning Goal/s:	For Example:
Explore the natural world around them, making observations and drawing pictures of animals and plants	Throughout the year we regularly explore seasonal changes to the weather, animals and trees. We look in more depth at similarities and differences between countries as we explore the book <i>This is How We Do It</i> and <i>Me on a Map</i> , using maps and globes to help our conceptual understanding of countries around the world. Children also enjoy witnessing the metamorphosis of a caterpillar to butterfly, and the process of hatching ducklings from eggs.
Understand some important processes and changes including states of matter	We explore the changes temperature has on ice and how different materials react to different elements such as water. We explore natural occurring phenomenon such as growing a plant from a seed, cooking and light and dark. Through our <i>Look After Your Planet</i> topic we learn about the effect humans have on the environment and we learn how to classify and sort rubbish.
Expectations entering Yr 1: -explore the natural world around them -describe what they see, hear and feel	
YR1 themes Everyday Material/ seasonal changes/ animals including humans/ plants	

Autumn 1		
Development Matters Statement	Topic	How it is taught
3-4 Years - Explore collections of materials with similar and/or different properties. - Explore and talk about different forces they can feel. - Talk about the differences between materials and changes they notice. -Talk about what they see using a wide vocabulary	Floating and Sinking (Science)	Exploring the forces of floating and sinking, investigating and categorising objects that float and sink. Following on from Speaking and Listening session exploring touch and describing how materials feels, investigate materials in water and observe changes, identifying what floats and what does not, referring back to the vocabulary introduces in those sessions. Make judgements and decide which materials are best for making floating boats.

	Autumn 2	
Development Matters Statement	Topic	How it is taught
<p>Children in Reception</p> <ul style="list-style-type: none"> - use all their senses in hand on exploration of natural materials - Understand the effect of changing seasons on the natural world around them - Explore the natural world around them 	Season: Autumn (Science)	<p>Explorations of materials indoors and outdoors.</p> <p>Autumnal treasure collecting.</p> <p>Sing songs and read books about Autumn.</p> <p>Observe changes to trees we see in the play ground.</p> <p>Observe changes in the weather and temperatures.</p>

	Spring 1	
Development Matters Statement	Topic	How it is taught
<p>3-4 Years</p> <ul style="list-style-type: none"> - Talk about the differences between materials and changes they notice. -Talk about what they see using a wide vocabulary -Know that there are different countries in the world and talk about the differences they have experiences or seen in photos. - Explore how things work <p>Children in Reception</p> <ul style="list-style-type: none"> - use all their senses in hand on exploration of natural materials - Understand the effect of changing seasons on the natural world around them - Explore the natural world around them 	Season: Winter (Science)	<p>Explorations of materials indoors and outdoors.</p> <p>Winter walks.</p> <p>Sing songs and read books about Winter.</p> <p>Observe changes to trees we see in the playground.</p> <p>Observe changes in the weather and temperatures.</p> <p>Explore the phenomena of freezing and melting and how water can change to ice and change back into water; thinking of ways to melt or preserve ice.</p> <p>Learn about animals in polar regions.</p>
<p>3-4 Years</p> <ul style="list-style-type: none"> - Explore and talk about different forces they can feel. -Talk about what they see using a wide vocabulary - Show interest in different occupations 	Space (Science/History)	<p>Children are encouraged to think of questions to find out more about space. As a class we research these together.</p> <p>Books are shared about space and astronauts such as Neil Armstrong.</p> <p>Explore the names of planets and investigate day and night by looking at the planet rotations.</p>

		We learn about oxygen and gravity.
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	Spring 2	
Development Matters Statement	Topic	How it is taught
<p>3-4 Years</p> <ul style="list-style-type: none"> -Talk about what they see using a wide vocabulary <p>Children in Reception</p> <ul style="list-style-type: none"> - use all their senses in hand on exploration of natural materials - Understand the effect of changing seasons on the natural world around them - Explore the natural world around them 	Season: Spring (Science)	<p>Explorations of materials indoors and outdoors.</p> <p>Winter walks.</p> <p>Sing songs and read books about Winter.</p> <p>Observe changes to trees we see in the playground.</p> <p>Observe changes in the weather and temperatures.</p> <p>Explore the phenomena of freezing and melting and how water can change to ice and change back into water; thinking of ways to melt or preserve ice.</p> <p>Learn about animals in polar regions.</p>
<p>3-4 Years</p> <ul style="list-style-type: none"> - Begin to make sense of their own life-story and family's history -Plant seeds and care for growing plants. -Understand the need to respect and care for the natural environment and all living things. <p>Children in Reception</p> <ul style="list-style-type: none"> - Talk about members of their immediate family and community -Comment on images of familiar situations in the past. 	Growing (Science)	<p>Children will learn how to grow a plant from a seed, learning about the life cycle of plants.</p> <p>Children will learn about how humans grow from babies to elderly, comparing themselves now to what they were like as babies and how they will change in the future. We will discuss their family and who in their family may be a toddler, teenager, elderly etc.</p>

	Summer 1	
Development Matters Statement	Topic	How it is taught
<p>3-4 Years</p> <ul style="list-style-type: none"> -Talk about what they see using a wide vocabulary - Understand the key features of the life cycle of a plant and an animal. - Begin to understand the need to respect and care for the natural environment and all living things. <p>Children in Reception</p> <ul style="list-style-type: none"> - use all their senses in hand on exploration of natural materials - Understand the effect of changing seasons on the natural world around them - Explore the natural world around them 	Life Cycle (Science)	<p>Leading on from growing plants and ourselves.</p> <p>Children will have first hand experience of watching chicks hatching from eggs as we learn about the life cycle of birds.</p>
	Minibeasts (Science)	<p>They will also observe the metamorphosis of caterpillars to butterflies and tadpoles to frogs.</p> <p>Mini beast hunts, microhabitats, and observations outside.</p> <p>Categorising minibeasts.</p>