



Forever Learning: Limitless potential for every child

Progression of Skills

Subject: Science			Leader: Miss Priya Singh		
Aspect of Learning	Foundation Stage		Early Learning Goal	Key Stage One	
	Nursery	Reception		Year 1	Year 2
Working Scientifically	Development Matters		HAPPENS THROUGH ALL AREAS OF THE CURRICULUM	<ul style="list-style-type: none"> • Ask simple questions. • Verbally state what they are going to investigate. • Observe closely. Carry out simple tests using nonstandard measurements when appropriate. Gather and record simple data. • Sort objects and living things into groups based on simple properties.	<ul style="list-style-type: none"> • Ask simple questions and recognise that they can be answered in different ways. • Make simple predictions based on a question. • Identify what they will change and keep the same. • Observe closely, using simple equipment. • Perform simple tests using standard units when appropriate. • Gather and record data to help in answering questions. • Identifying and classifying. • Talk about what they have found out and how they found it out. (non-statutory) • Use their observations and ideas to suggest answers to questions.
	HAPPENS THROUGH ALL AREAS OF THE CURRICULUM	HAPPENS THROUGH ALL AREAS OF THE CURRICULUM			
	Birth to 5				
	HAPPENS THROUGH ALL AREAS OF THE CURRICULUM	HAPPENS THROUGH ALL AREAS OF THE CURRICULUM			

Plants	Development Matters		<ul style="list-style-type: none"> Children at the expected level of development will: Explore the natural world around them, making observations and drawing pictures of animals and plants; 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; Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 	<ul style="list-style-type: none"> Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants, including trees. 	<ul style="list-style-type: none"> Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
	<ul style="list-style-type: none"> Explore how things work Plant seeds and care for growing plants 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. 	<ul style="list-style-type: none"> Explore the natural world around them Describe what they see, hear and feel whilst outside Recognise some environments that are different to the ones they live Understand the effect of changing seasons on the natural world around them 			
	Birth to 5				
	<ul style="list-style-type: none"> Can talk about some of the things they have observed such as plants, animals natural and found objects Talks about why things happen and how things work Developing an understanding of growth, decay and changes over time Shows care and concern for living things and the environment Begin to understand the effect their 	<ul style="list-style-type: none"> Looks closely at similarities, differences, patterns and change in nature Knows about similarities and differences in relation to places, objects, materials and living things Talks about the features of their own environment and how environments might vary from one another. Make observations of animals and plants and explains why some things occur, 			

	behaviour can have on the environment	and talks about changes			
Animals, including humans	Development Matters		<ul style="list-style-type: none"> Children at the expected level of development will: Explore the natural world around them, making observations and drawing pictures of animals and plants; 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; Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 	<ul style="list-style-type: none"> Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. 	<ul style="list-style-type: none"> Notice that animals, including humans, have offspring which grow into adults Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.
	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Explore the natural world around them 			
	Birth to 5				
<ul style="list-style-type: none"> Can talk about some of the things they have observed such as plants, animals natural and found objects Talks about why things happen and how things work Developing an understanding of growth, decay and changes over time Shows care and concern for living things and the environment 	<ul style="list-style-type: none"> Looks closely at similarities, differences, patterns and change in nature Knows about similarities and differences in relation to places, objects, materials and living things Talks about the features of their own environment and how environments might vary from one another. Make observations of animals and plants and explains why some things 				

		occur, and talks about changes			
Everyday Materials	Development Matters		<ul style="list-style-type: none"> Children at the expected level of development will: Explore the natural world around them, making observations and drawing pictures of animals and plants; 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; Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 	<ul style="list-style-type: none"> Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday materials Compare and group together a variety of everyday materials on the basis of their simple physical properties 	<ul style="list-style-type: none"> Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching
	<ul style="list-style-type: none"> Explore how things work Explore and talk about different forces they can feel Talk about the differences between materials and changes they notice 	<ul style="list-style-type: none"> Describe what they see, hear and feel whilst outside 			
Everyday Materials	Birth to 5		<ul style="list-style-type: none"> Children at the expected level of development will: Explore the natural world around them, making observations and drawing pictures of animals and plants; 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; Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 	<ul style="list-style-type: none"> Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday materials Compare and group together a variety of everyday materials on the basis of their simple physical properties 	<ul style="list-style-type: none"> Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching
	<ul style="list-style-type: none"> Can talk about some of the things they have observed such as plants, animals natural and found objects Talks about why things happen and how things work 	<ul style="list-style-type: none"> Knows about similarities and differences in relation to places, objects, materials and living things Talks about the features of their own environment and how environments might vary from one another 			
Seasonal Changes	Development Matters		<ul style="list-style-type: none"> Children at the expected level of development will: Explore the natural world around them, making observations and drawing pictures of animals and plants; Know some similarities and differences between the natural world around them and 	<ul style="list-style-type: none"> Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies 	N/A
	<ul style="list-style-type: none"> Explore how things work Explore and talk about different forces they can feel 	<ul style="list-style-type: none"> Explore the natural world around them Describe what they see, hear and feel whilst outside Recognise some environments that are different to the ones they live 			

		<ul style="list-style-type: none"> Understand the effect of changing seasons on the natural world around them 	<ul style="list-style-type: none"> contrasting environments, drawing on their experiences and what has been read in class; Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 		
	Birth to 5 <ul style="list-style-type: none"> Talks about why things happen and how things work Developing an understanding of growth, decay and changes over time Begin to understand the effect their behaviour can have on the environment 	<ul style="list-style-type: none"> Looks closely at similarities, differences, patterns and change in nature Knows about similarities and differences in relation to places, objects, materials and living things Talks about the features of their own environment and how environments might vary from one another Makes observations of animals and plants and explains why some things occur and talks about changes 			
Living things & their habitats	Development Matters <ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Explore the natural world around them 	<ul style="list-style-type: none"> Children at the expected level of development will: Explore the natural world around them, making observations and drawing pictures of animals and plants; Know some similarities and differences between the natural world around them and contrasting environments, drawing 	N/A	<ul style="list-style-type: none"> Explore and compare the differences between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other
	Birth to 5 <ul style="list-style-type: none"> Can talk about some of the things they have observed 	<ul style="list-style-type: none"> Looks closely at similarities, differences, 			

	<p>such as plants, animals natural and found objects</p> <ul style="list-style-type: none"> • Developing an understanding of growth, decay and changes over time • Shows care and concern for living things and the environment 	<p>patterns and change in nature</p> <ul style="list-style-type: none"> • Knows about similarities and differences in relation to places, objects, materials and living things • Talks about the features of their own environment and how environments might vary from one another. • Make observations of animals and plants and explains why some things occur, and talks about changes 	<p>on their experiences and what has been read in class;</p> <ul style="list-style-type: none"> • Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 		<ul style="list-style-type: none"> • Identify and name a variety of plants and animals in their habitats, including microhabitats • 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
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