

Understanding the world – Science focus



ELG – Understanding the world – similarities and differences	To make observations and explain why some things occur, and talk about changes				
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:
<p>Use all their senses in hands on exploration of natural materials/resources in the continuous provision.</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking Talk about the differences between materials and changes they notice.</p> <p>Discuss the changes in the weather and seasons</p> <p>Using mirrors looking at ourselves and drawing Ourselves-Self portrait</p> <p>Isle of Wight day</p>	<p>Use all their senses in hand on exploration of natural materials.</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking Talk about the differences between materials and changes they notice.</p> <p>Environmental walk</p> <p>Discuss the changes in the weather and</p>	<p>Plant seeds and care for growing plants.</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking Talk about the differences between materials and changes they notice.</p> <p>Begin to understand the need to respect and care for the natural environment and all living things.</p> <p>Environmental walk</p> <p>Discuss the changes in the weather and seasons</p>	<p>Plant seeds and care for growing plants.</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking Talk about the differences between materials and changes they notice.</p> <p>Understand the key features of the life cycle of a plant and a caterpillar.</p> <p>Begin to understand the need to respect and care for the</p>	<p>Understand the key features of the life cycle of a plant</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking Talk about the differences between materials and changes they notice.</p> <p>Environmental walk</p> <p>Discuss the changes in the weather and seasons</p>	<p>Use all their senses in hands on exploration of natural materials in the continuous provision.</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking Talk about the differences between materials and changes they notice.</p> <p>Environmental walk</p> <p>Discuss the</p>

Understanding the world – Science focus



Train line maps Trains-Small world linked to the story of the week	seasons		natural environment and all living things. Environmental walk Discuss the changes in the weather and seasons		changes in the weather and seasons
Reception:	Reception:	Reception:	Reception:	Reception:	Reception:
Big question – How have I changed since I was a baby? Changes to humans Comparing dinosaurs					Why do we have beaches on the Isle of Wight? Observations of our local environment and beach
ELG – Understand the world – exploring the natural world - Plants	They make observations of plants and explain why some things occur, and talk about changes				
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:
Environmental walk Look at conkers, leaves, acorns, pinecones Talk about how leaves change colour. Explore and respond to different natural phenomena in their setting and on trips		Plant seeds and care for growing plants. Begin to understand the need to respect and care for the natural environment and all living things. Understand the key features of the life cycle of a		Understand the key features of the life cycle of a plant Environmental walk Discuss the changes in the weather and seasons	

Understanding the world – Science focus



<p>Begin to understand the need to respect and care for the natural environment and all living things.</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking</p> <p>Exploring and play through sand and water</p>		<p>plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things.</p> <p>Environmental walk</p> <p>Enhancements in the continuous provision, Gloop, playdough, cooking</p> <p>Discuss the changes in the weather and seasons</p> <p>Exploring and play through sand and water</p>		<p>Enhancements in the continuous provision, Gloop, playdough, cooking</p> <p>Exploring and play through sand and water</p>	
Reception:	Reception:	Reception:	Reception:	Reception:	Reception:
Comparing leaves and plants in our environment		Different types of animals found in the world - focus on safari animals.	<p>Big question – How does a flower grow?</p> <p>Where is the best place for a plant to grow? (investigation)</p> <p>Label parts of the plants</p> <p>Using magnifiers to explore plants and seeds</p> <p>Plant seeds (vegetables – cress)</p> <p>Plant beans and bulbs</p>		

Understanding the world – Science focus



ELG – Understand the world – Living things in their habitat		They talk about the features of their own immediate environment and how environments might vary from one another			
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:
Environmental walk Explore and respond to different natural phenomena in their setting and on trips Exploring and play through sand and water Enhancements in the continuous provision, Gloop, playdough, cooking Begin to understand the need to respect and care for the natural environment and all living things.		Environmental walk Exploring and play through sand and water Enhancements in the continuous provision, Gloop, playdough, cooking 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.		Environmental walk Exploring and play through sand and water 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.	
Reception:	Reception:	Reception:	Reception:	Reception:	Reception:
Woodland small world Hedgehogs and their habitat		Big question: what is a life cycle? Life cycle of a caterpillar/butterfly/frog	Zoo/park trips Space – rocket making		
ELG – Understand the world – Seasonal Change		To make observations of weather and explain why some things occur, and talk about changes			
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:
Environmental walk– observe leaves falling off trees, collection of natural treasures to use in the continuous provision Explore and respond to different natural		Environmental walk Leaves growing on trees.		Environmental walk Discuss the changes in weather: Need for sunscreen and hats	

Understanding the world – Science focus



phenomena in their setting and on trips Using natural treasures in the creative area, making their own autumnal pictures Appropriate clothing for winter. Daily discussions of the weather Begin to understand the need to respect and care for the natural environment and all living things.		Plant seeds and care for growing plants. Daily discussions of the weather Begin to understand the need to respect and care for the natural environment and all living things.		Daily discussions of the weather	
Reception:	Reception:	Reception:	Reception:	Reception:	Reception:
Why do leaves fall investigation Leaf printing	Big question –Why does the weather change? Observation of weather changes.	Signs of Spring What do we know about winter?		Clothes for a trip, holiday Sun safety	
ELG – Understand the world – changing states of matter - Materials		To know about similarities and differences in relation to places, objects, materials			
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:	Pre-school:
Exploring materials in sand tray and water. Talking about how it feels and what they see. Adults modelling and extending language Explore and respond to different natural phenomena in their setting and on trips		Environmental walk Talk about what they see, using a wide vocabulary Use of the mud kitchen		Environmental walk Talk about what they see, using a wide vocabulary Use of the mud kitchen	

Understanding the world – Science focus



Use of the mud kitchen	Enhancements in the continuous provision, Gloop, playdough, cooking, ice making	Talk about the differences between materials and changes they notice.	Enhancements in the continuous provision, Gloop, playdough, cooking	Talk about the differences between materials and changes they notice.
Environmental walk				
Talk about what they see, using a wide vocabulary	Enhancements in the continuous provision, Gloop, playdough, cooking, ice making	Talk about the differences between materials and changes they notice.	Enhancements in the continuous provision, Gloop, playdough, cooking	Talk about the differences between materials and changes they notice.
Enhancements in the continuous provision, Gloop, playdough, cooking, ice making				
Talk about the differences between materials and changes they notice.				
Reception:	Reception:	Reception:	Reception:	Reception:
Exploring materials in sand tray and water. Comparing different types of natural resources		Exploring magnets – magnetic – non magnetic Observing numbers trapped in ice	Materials used in space	Nature hunts Explore floating and sinking Messy Play

Science

Organisation of Knowledge	Working scientifically	Plants	Animals including humans	Everyday materials	Seasonal change
3 ELG	<p>ELG: Listening, Attention and Understanding</p> <ul style="list-style-type: none"> - Make comments about what they have heard and ask questions to clarify their understanding. <p>ELG: Fine motor skills</p> <ul style="list-style-type: none"> - Use a range of small tools, including scissors, paint brushes and cutlery. <p>ELG: Building Relationships</p> <ul style="list-style-type: none"> - Work and play cooperatively and take turns with others. 	<p>ELG: The Natural World</p> <ul style="list-style-type: none"> - Explore the natural world around them, making observations and drawing pictures of plants and animals. - 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>ELG: Speaking</p> <ul style="list-style-type: none"> - Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. 		<p>ELG: The Natural World</p> <ul style="list-style-type: none"> - Understand some important processes and changes in the natural world, including the seasons and changing states of matter. <p>ELG: Speaking</p> <ul style="list-style-type: none"> - Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. 	
KS1 readiness objectives	<p>To feel confident to answer simple questions about observable properties of objects and people, animals and plants around them</p> <p>To compare objects in their environment and talk about similarities and differences</p>	<p>To know what a plant is</p> <p>To know what a flower is</p> <p>To know where you see plants</p> <p>To describe different plants and flowers</p>	<p>To know what an animal is</p> <p>To recognise and name a variety of different animals</p> <p>To know the names of different body parts of humans and animals they have experience of</p>	<p>To recognise that different everyday objects are made from different materials</p> <p>To describe how different objects look and feel</p>	<p>To know about different types of weather</p> <p>To observe changes in trees and plants as the seasons progress</p>



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*Preschool-Please note: Understanding of the world is planned for weekly through the continuous provision, enhancements, the children's interests, in the moment planning, weekly challenges, termly assessments linked to the 7 areas of learning, book of the week and song of the week.

Fiction and nonfiction books are in the book corner for independent use and for daily book borrowing to share books with their families.

The book of the week is linked to the children's interests and small world area.

Natural resources are used in the continuous provision inside and outside.

There is an investigation area, that changes with the children's interests or celebrations.

Children's birthdays are celebrated throughout the year.