

Science Overview - Little Acorns

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Ourselves	Autumn/ Seasons	Winter	Growing	Farms	Pirates
Text	Who's in my family? That's not my teddy.	Leaf Hunt Spot—The rainy day.	Polar Bear Polar Bear what do you hear? Charlie Crow in the snow.	The Little Red Hen Oliver's vegetables.	Oh Dear! Spot goes to the farm	That's not my pirate. Pirates love underpants.
Expectations	<ul style="list-style-type: none"> To explore materials Is able to explore some natural phenomena within the setting and outside, e.g. signs of autumn, the weather outside. 		<ul style="list-style-type: none"> To explore materials and begin to notice different properties. Can make simple comments about natural phenomenon that occurs in the setting and on trips. E.g. growing plants. 		<ul style="list-style-type: none"> To explore materials, and begin to sort them according to their properties. . Explores and asks questions about natural phenomenon they observe such as the weather, features of the seaside. 	
Activities	<ul style="list-style-type: none"> Draw and paint self portraits. Naming features of the face. Make models of their homes using a range of materials. 	<ul style="list-style-type: none"> Exploration tray with Autumn objects. Make sticky Autumn leaf pictures. 	<ul style="list-style-type: none"> Winter Exploration tray. Different textures such as foil, bubble wrap, fabric to represent snow and ice. Shaving foam small world and messy play. 	<ul style="list-style-type: none"> Plant seeds and observe what happens to them. Gardening role-play station. Digging and planting in soil using trowels and spades. 	<ul style="list-style-type: none"> Small world tray set up as a farm. Find out about animals and their babies. Make animal masks of farm animals. 	<ul style="list-style-type: none"> Make Pirate ships using a variety of materials. Design pirate hats or eye patches. Pirate small world play using sand to represent the beach.
Outdoor Activities	<ul style="list-style-type: none"> Pretend play in the mud kitchen linked to homes and family using natural objects. 	<ul style="list-style-type: none"> Go on an Autumn walk in the nursery garden and school grounds. Use rainy day resources in the garden. Use windy day resources in the garden. 	<ul style="list-style-type: none"> Winter detective hunt. Spotting signs of Winter outside. Using ice in the mud kitchen and small world areas. 	<ul style="list-style-type: none"> Set up a planting area outside. Observe the plants growing over a period of time. 	<ul style="list-style-type: none"> Set up a farmyard in the nursery garden. Farm shop role-play. Use tills and coins to sell milk, eggs and farm produce. 	<ul style="list-style-type: none"> Use boats and sea creatures in the water tray. Make and race boats down ramps in the water areas.

Science Overview - Nursery

	Autumn 1	Autumn 2	Spring 1		Spring 2		Summer 1		Summer 2		
Topic	Ourselves/ Our Families/ Traditional Tales	Festival and Celebrations	Cycle A—Pets	Cycle B– People who help us	Cycle A- Travel and Transport	Cycle B– Julia Donaldson	Cycle A- Minibeast and Growth	Cycle B– Bears	Cycle A– The Seaside and under the sea.	Cycle B– Jungle.	
Text	The Three Little Pigs The Three Billy Goats Gruff	Room On The Broom Hurry Santa	Six Dinner Sid. Hairy McClairy stories.	My Grandfather is a firefighter. Mog and the Vee Eee Tee	The Train Ride. Whatever Next	The Gruffalo What the Ladybird Heard.	The Very Hungry Caterpillar Superworm.	We're going on a Bear Hunt Where's My Teddy?	Commotion in the Ocean. The Rainbow Fish.	Monkey Puzzle. We're going on a Lion Hunt.	
Expectations	<ul style="list-style-type: none"> Can use all senses to explore natural materials. Explores a range of collections of materials with similar and different properties. 		<ul style="list-style-type: none"> Explores how things work. Can explore and talk about different forces they can feel. Can describe changes to materials that they observe. Understands the need to care for the environment. Understand the need to care for living creatures. 				<ul style="list-style-type: none"> Plants seeds and cares for growing plants. Can talk about the key features of a life cycle of a plant. Can talk about the key features of a life cycle of a butterfly. 				
Activities	Autumn treasure bags Autumn exploring tables Exploring materials linked to Three Little Pigs (touch, sight etc) Choosing materials to build houses and bridges linking to The Billy Goat Gruff.	Exploring a range of Christmas Materials. E.g. Shiny, rough, smooth, hard and soft etc. Explore senses– touch, smell, taste and sight using tuff spot for exploration trays.	Look at animals and their features e.g. cat, dog, hamster, fish etc Role play area– pet shop/vets Visits from a range of animals– tortoise, hamster, dog etc. Pictures of pets from home	Explore what doctors, firefighters and police do to help care for us.	Using a range of transport vehicles explore the push and pull force. Use ramps to speed up and slow down. Explore with playdough pushing and pulling, changing shape using a range of equipment	Look at a range of images of how trees change over seasons linking to the Gruffalo Habitat. Discuss how we can care for the forest.	Plant a range of seeds– cress, sunflowers and beans Observational drawings of flowers and plants. Bug hunts Activities around the Hungry Caterpillar.	Explore bear habitats. Look at the different food bears eat.	Explore the features of a rock pool– creatures Floating and sinking linked to boats Explore magnets with a range of materials. Seaside sorting – natural/ man made and recycling/ rubbish.	Explore jungle animals. Look at plants you may find in jungle	
Outdoor Activities	Range of materials to create bridges (large scale construction) Autumn tuff spot– Range of different textures and materials Exploring the nursery garden	Rain collectors– use a range of different tubs and materials. Explore the wind– ribbons/ kites	Rescuing frozen animals and discussing where they should live.	Explore the outdoor environment to discuss how we can help care for it.	Linking to space build rockets using large scale construction and discuss the forces used.	Explore a range of materials to recreate the animal habitats from the Gruffalo.	Explore the bug hotel – magnifying glasses etc.	Go on a bear hunt around the nursery garden. Discuss the different terrain around the garden.	Create rock pools on the tuff spot Floating and sinking exploration in the water area	Use natural materials to create own habitats for a range of animals.	

Science Overview - Reception

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	We all make a Rainbow	Festivals and Light	Our Wonderful Planet	Can you help?	Traditional Tales	Setting the Scene
Text	<p>The Rainbow Fish</p> <p>The Colour Monster</p> <p>Elmer</p> <p>What makes me a me?</p> <p>Titch</p> <p>All Belong</p> <p>A Handful of Buttons</p>	<p>Little Glow</p> <p>Dipal's Diwali</p> <p>Kipper's Birthday</p> <p>Shabbat is Coming!</p> <p>The Jolly Christmas Postman</p> <p>The Christmas Promise</p>	<p>Snowflake</p> <p>Emma Jane's Aeroplane</p> <p>The Great Explorer</p> <p>Katie London</p> <p>The Koala Who Could</p> <p>Handa's Surprise</p> <p>Meerkat Mail</p>	<p>Zog and The Flying Doctor</p> <p>Topsy and Tim Go to the Hospital</p> <p>Firefighter Pete</p> <p>Topsy and Tim Meet the Firefighters</p> <p>Topsy and Time Meet the Police</p> <p>Topsy and Tim Go to the Dentist</p> <p>Easter Story</p> <p>Egg Drop</p>	<p>The Three Little Pigs</p> <p>Little Red Riding Hood</p> <p>Jack and the Beanstalk</p> <p>The Gingerbread Man</p> <p>Goldilocks and the Three Bears</p>	<p>What the Ladybird Heard</p> <p>Gruffalo</p> <p>The Smeds and The Smoos</p> <p>The Smartest Giant in Town</p> <p>Superworm</p>
Expectations	<ul style="list-style-type: none"> Children will talk about different types of weather. Children will use the outdoor environment to explore. Children will explore signs of summer 	<ul style="list-style-type: none"> Children will talk about different types of weather Children will use the outdoor environment to explore. Children will explore signs of Autumn 	<ul style="list-style-type: none"> Compare and contrast hot/cold environments. Children will describe what they see, hear and feel whilst outside. Children will explore signs of Winter. 	<ul style="list-style-type: none"> Children will describe what they see, hear and feel whilst outside. Children will explore signs of Spring 	<ul style="list-style-type: none"> Explore the natural world (animals/plants). Understand some important processes and changes in the natural world (seasons/changing states of matter). 	<ul style="list-style-type: none"> Talk about similarities and differences between different environments. Explore the natural world (animals/plants).
Activities	<p>Allotments</p> <p>Harvest e.g. planting vegetables etc.</p> <p>Environment walk looking for signs of summer</p> <p>Exploring Reception garden</p>	<p>Autumn Walk</p> <p>Correct clothing for Halloween/ Bonfire Night</p> <p>Explore the change in Reception Garden e.g. leaves falling etc</p> <p>Harvest of pumpkins/ making soup (linking to changing states of matter)</p>	<p>Winter Walk</p> <p>Ice experiment</p> <p>Sinking and floating</p> <p>Animals around the world and the environment they live in</p> <p>Explore the change in Reception Garden e.g. frost/ice</p>	<p>Spring Walk</p> <p>Spring animals</p> <p>Life cycle of a hen</p> <p>Explore the change in Reception Garden e.g. daffodils etc</p>	<p>Materials linked to the Three Little Pigs</p> <p>Changing state of matter linked to baking Gingerbread</p> <p>Planting beans and flowers linked to Jack and the Bean Stalk</p> <p>Life cycle of a bean plant</p>	<p>Summer Walk</p> <p>Minibeast Hunt</p> <p>Life cycle of a butterfly</p> <p>Animals and their habitats e.g. woodland animals, farm animals etc.</p>
Outdoor Activities (Awe and Wonder)	<p>Paper Towel Colour Mixing</p> <p>How to Grow a Rainbow</p> <p>Rainbow Bubble Snake</p>	<p>Rain Cloud in a Jar</p> <p>Bubbling Magic Potions</p> <p>Fireworks in a Glass</p>	<p>Toy Freeze</p> <p>How Do Polar Animals Stay Warm?</p> <p>Sticky Ice</p>	<p>Fireman's Hose</p> <p>Boat Size and Strength</p> <p>Floating Dinosaur Rescue</p>	<p>Gingerbread Man Trap</p> <p>Build a Castle in the Clouds</p> <p>Ted's Umbrella</p>	<p>Bees and Pollination</p> <p>Balancing Butterfly</p> <p>Drinking Nectar</p>

Year 1 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Ourselves						Seasonal Changes (Autumn)	Materials				
Spring	Seasonal Changes (Winter)	Planting (1)	Animals					Caring for the planet (Sustainability)		Planting (2)	Seasonal Changes (Spring)	
Summer	Plants						Planting (3)	Growing and cooking (Sustainability)	Seasonal Changes (Summer)	Consolidation		

Year 2 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Materials						Materials				Sustainability – Plastic	Consolidation
Spring	Humans						Living, Dead, Never Been Alive					
Summer	Plants (Lessons 1-4)				Animals			Plants (Lesson 5)	Habitats			