

	Autumn Term	Spring Term	Summer Term
Science UNDERSTANDING THE WORLD	<u>Across the Academic year</u>		
	<p>Encourage children to refer to books, wall displays and online resources to support their investigations and extend their knowledge and ways of thinking. Show and explain the concepts of growth, change and decay with natural materials, i.e. observe an apple core going brown and mouldy over time. Talk about what they see using a wide vocabulary, Explore how things work. Encourage children to talk about what they see. Model observational and investigational skills. Ask out loud: "I wonder if...?" Provide children with opportunities to change materials from one state to another, cooking, combining different ingredients, cooling, heating, melting.</p> <p>Weather – Daily Weather song, daily weather chart (look at patterns of weather) – Name the four seasons – What's happening outdoors</p> <p>Outdoors - Provide interesting natural environments for children to explore freely outdoors. Explore natural materials both inside and outside, Explore and respond to different natural phenomena, e.g., puddles, worms in the soil, etc, Experience different weathers, Use all their senses in hands on exploration of natural materials. Talk about what they see using a wide vocabulary. Begin to understand the need to respect and care for the natural environment and all living things.</p>		
	<p><u>The Human body</u> -Through stories and songs/rhymes children to learn the names of the different parts of the body.</p> <p><u>Exploring different materials</u></p> <ul style="list-style-type: none"> Identify and name the properties of different materials (wood, paper, metal, plastic, glass, rock) Experiment with different materials –exploring with reclaimed, outdoor, and everyday materials. Explore collections of materials with similar and/or different properties. Talk about the differences between materials and changes they notice - Cooking, melting, etc. Explore how different materials sink and float. Explore how you can shine light through some materials, but not others. Investigate shadows. Introduce new vocabulary related to the exploration and encourage children to use it. 	<p><u>Exploring forces</u></p> <ul style="list-style-type: none"> Explore and talk about different forces they can feel. Draw children's attention to forces, how the water pushes up when they try to push a plastic boat under it, how they can stretch elastic, snap a twig, but cannot bend a metal rod, magnetic attraction, and repulsion. <p><u>Growing plants</u></p> <ul style="list-style-type: none"> Observe and talk about how a plant, animal grows and changes. Record changes orally and pictorially. Identify what living things need to grow healthily (water, air, light) Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant. Show and explain the concepts of growth, change and decay with natural materials - plant seeds and bulbs so children observe growth and decay over time. 	<p><u>Life Cycles – Butterflies</u> Children to care for caterpillars and butterflies and take part in first-hand scientific explorations of life cycles.</p> <ul style="list-style-type: none"> Understand the key features of the life cycle of a plant and an animal. <p><u>Animals and their features</u> Through stories children to name and identify animals. Discuss their appearance, identifiable features, how they move, where they live and the animal noises they make.</p> <p><u>Visit from the Zoo Lab</u></p> <ul style="list-style-type: none"> Observe the animals and talk about their habitats, food, physical features Ask questions about the animal care given. Sort and classify the animals they observed and handled, using pictures and simple charts. Observe, name, and handle exotic creatures.