

Lapford Community Primary School

Science Rolling Programme



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Robins N/R	EYFS Birth - 3	<p>Understand simple questions about 'who', 'what' and 'where'. CL</p> <p>Identify familiar objects and properties for practitioners when they are described. CL</p> <p>Explore materials with different properties. UW</p> <p>Explore natural materials, indoors and outside. UW</p> <p>Explore and respond to different natural phenomena in their setting and on trips. UW</p>				
	EYFS Birth 3-4	<p>Understand 'why' questions like: "Why do you think the caterpillar got so fat?" CL</p> <p>Make healthy choices about food, drink, activity and tooth brushing. PSED</p> <p>Use all their senses in hands-on exploration of natural materials. UW</p> <p>Explore collections of materials with similar and/or different properties. UW</p> <p>Talk about what they see, using a wide vocabulary. UW</p> <p>Talk about the differences between materials and changes they notice. UW</p> <p>Plant seeds and care for growing plants. UW</p> <p>Understand the key features of the life cycle of a plant and animal. UW</p> <p>Begin to understand the need to respect and care for the natural environment and all living things. UW</p> <p>Make healthy choices about food, drink, activity and tooth brushing. PSED</p> <p>Begin to make sense of their own life-story and family's history. UW</p>				

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Robins N/R	EYFS R	<p>Learn new vocabulary. CL</p> <p>Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. CL</p> <p>Use new vocabulary in different contexts. CL</p> <p>Explore the natural world around them. UW</p> <p>Understand the effect of changing seasons on the natural world around them. UW</p> <p>Describe what they see, hear and feel when they are outside. UW</p> <p>Recognise some environments that are different to the one in which they live. UW</p> <p>Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. CL</p> <p>Know and talk about the different factors that support their overall health and well-being:</p> <ul style="list-style-type: none"> • Regular physical activity • Healthy eating • Tooth brushing • Sensible amounts of 'screen time' • Having a good sleep routine • Being a safe pedestrian PSED <p>Explore the natural world around them. UW</p>				
	EYFS ELG	<p>Make comments about what they have heard and ask questions to clarify their understanding. CL</p> <p>Manage their own basic hygiene/personal needs, including dressing, going to the toilet and understanding the importance of health choices. PSED</p> <p>Understand some important processes and changes in the natural world around them , including the season changes and states of matter. UW</p> <p>Explore the natural world around them, making observations and drawing pictures of animals and plants. UW</p> <p>Make comments about what they have heard and ask questions to clarify their understanding. CL</p>				

Sky larks Y1/2	A	<p>Animals including humans (Y2) Children will look at animal young and compare them to adults. They will look at how animals change when they grow up and be introduced to life cycles of humans. Focus scientist: Yann Le Meur</p>	<p>Living Things and their habitats (Y2) Children will learn about a variety of habitats and the plants/animals that live there. They will learn to tell the difference between things that are living, dead and have never been alive. Focus scientist: Rachel Carson</p>	<p>Uses of everyday materials (Y2) The children will learn about the use of materials such as wood, plastic, metal and glass. They will compare the suitability of different materials for different purposes. Focus scientist: Charles Macintosh</p>	<p>Plants (Y2) Children will have the opportunity to closely study plants and trees in the natural environment. They will investigate what plants need to grow well and observe the inside of a seed as the beginning of their focus on the plant life cycle. Focus scientist: George Washington Carver</p>	<p>The Environment (Y2) Children will learn about the ecological changes that face the modern world. They will undertake a range of activities which will challenge them to engage with environmental issues and consider sustainable living,</p>	<p>Scientists and Inventors (Y2) This 'Scientist and Inventors' unt will teach the children about famous scientists and inventors linked to the Year 2 science curriculum (e.g TimSmit and Nicholas Grimshaw).</p>
	B	<p>Everyday materials (Y1) Children will learn about everyday materials such as wood, plastic, metal and rock. They will learn to identify and name these materials and consider their properties. Focus scientist: William Addis</p>	<p>Seasonal changes – Autumn / Winter (Y1) Children will learn about Autumn and Winter. They will find out about the weather in different seasons and make comparisons across seasons. They will observe changes through nature and wildlife. Focus scientist: Liam Dutton</p>	<p>Animals including humans (Y1) Children will learn about five of the groups that scientists use to classify animals: mammals, fish, birds, reptiles and amphibians. They will learn to identify and classify animals according to their group. Focus scientist: Chris Packham</p>	<p>Seasonal changes – Spring / Summer (Y1) Children will learn about Spring and Summer. They will find out about the weather in different seasons and make comparisons across seasons. They will observe changes through nature and wildlife. Focus scientist: Liam Dutton</p>	<p>Plants (Y1) Children will have the opportunity to closely study plants and trees in the natural environment. They will set up a comparative experiment to observe what plants need to grow well and watch the germination process, Focus scientist: Beatrix Potter</p>	<p>Scientists and Inventors (Y1) This 'Scientist and Inventors' unt will teach the children about famous scientists and inventors linked to the Year 1 science curriculum (e.g Moe Jemison and George Mottershead).</p>



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King fishers Y3/4/5	A	<p>Earth and Space (Y5) The children will learn about the different matters that make up the Solar system. They will explore how it is possible for Earth to have night and day and different seasons. They will learn about the phases of the Moon.</p> <p>Focus scientist: Mai Jemison</p>	<p>Properties and changes to materials (Y5) The children will build on their knowledge of different material properties and investigate dissolving, separating mixtures and irreversible changes.</p> <p>Focus scientist: Becky Shroeder</p>	<p>Rocks (Y3) The children will discover the different types of rocks and how they are formed. They will compare and group rocks based upon their properties and investigate how soil is formed and its differing permeability.</p> <p>Focus scientist: Mary Anning</p>	<p>Forces and Magnets (Y3) The children will learn about forces, friction and magnetic attraction. They will learn about forces in the context of pushing and pulling and investigate the strength of different magnets.</p> <p>Focus scientist: William Gilbert</p>	<p>Animals including humans (Y3) Building on learning in KS1, the children will find out more about what makes a healthy, balanced diet. They will compare animals' skeletons, learn the names of different bones and how muscles help us move.</p> <p>Focus scientist: Willhelm Rontgen</p>	<p>Scientists and Inventors (Y3) This 'Scientist and Inventors' unt will teach the children about famous scientists and inventors linked to the Year 3 science curriculum (e.g Sir Joseph Banks and JeanneBaret).</p>
	B	<p>Living things and their habitats (Y4) The children will use a variety of ways to sort, group and classify living things. They will learn about vertebrates and invertebrates and begin to consider the differences between living things and these classifications.</p> <p>Focus scientist: Gladys West</p>	<p>States of matter (Y4) The children will learn the difference between solids, liquids and gases, classifying objects and their properties. They will explore how water changes state (melting, freezing, condensing and evaporation) through the water cycle.</p> <p>Focus scientist: Daniel Fahrenheit</p>	<p>Sound (Y4) The children will learn about how vibrations cause sounds and how sounds travel, as well as how sounds can change pitch and volume. They will investigate how sounds change over distance and through different materials.</p> <p>Focus scientist: Evelyn Glennie</p>	<p>Electricity (Y4) The children will learn what electricity is and how it was discovered. They will identify appliances which use electricity, consider safety and construct circuits. They will investigate how to create circuits with different components.</p> <p>Focus scientist: Michael Faraday</p>	<p>Animals including humans (Y4) The children will learn about the digestive system in humans and animals and functions of teeth. They will learn more about herbivores, carnivores and omnivores and explore complex food chains and food webs.</p> <p>Focus scientist: Ivan Pavlov</p>	<p>Scientists and Inventors (Y4) This 'Scientist and Inventors' unt will teach the children about famous scientists and inventors linked to the Year 4 science curriculum (e.g Gerald Durrel and Alexander Graham Bell).</p>





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King Fishers Y3/4/5	C	<p>Forces (Y5) The children will learn about different forces such as gravity, friction and water resistance and carry out investigations to explore these. They will explore different mechanisms such as levers, gears and pulleys. Focus scientist: Isaac Newton</p>	<p>Light (Y3) The children will learn about light, reflections and shadows. They will learn about different sources of light and investigate how different objects are transparent, translucent and opaque. They will investigate reflective materials and surfaces. Focus scientist: Ibn al-Haytham</p>	<p>Living things and their habitats (Y5) The children will learn about the process of reproduction and the life cycle of plants, mammals, amphibians, insects and birds. They will explore reproduction in different plants and learn about the different types of mammals and life cycles. Focus scientist: Malaika Vas</p>	<p>Animals including humans (Y5) The children will learn about the life cycle of a human being. They will find out about the development of babies and compare the gestation period of humans and other animals. They will learn about the changes experienced in puberty. Focus scientist: Sigmund Freud</p>	<p>Plants (Y3) The children will learn the names and functions of different parts of a plant. They will investigate what plants need to grow well and find out about the transportation of water within plants. They will explore the life cycle of a flowering plant. Focus scientist: Ahmed Mumin Warfa</p>	<p>Scientists and Inventors (Y5) This 'Scientist and Inventors' unit will teach the children about famous scientists and inventors linked to the Upper Key Stage 2 science curriculum (e.g Stephen Hawking and Alexander Fleming).</p>

