

# Barham Primary School

## Science Curriculum

Overview

2024 - 25



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery Development matters	<p>Children get used to their new environment, indoors and outdoors. We talk about changes in routine and changes in our own life as we grow from babies to toddlers to children coming to Nursery.</p> <p>Children explore a range of natural materials, eg sand, water and mud.</p> <p>Children learn about looking after ourselves, going to the toilet and washing our hands, eating fruit and drinking milk and water.</p>	<p>Visit from the Dental Nurse, children learn about brushing our teeth and thinking about the food that we eat.</p> <p>We observe the changes in weather such as falling of leaves and how their colour changed.</p> <p>Children learn about sound, animal sounds, environmental sounds, voice, body percussion, instruments, loud, quiet and sounds made in different ways.</p> <p>We observe changes in weather and explore ice, how to make ice and melting.</p>	<p>We look at the butterfly lifecycle. (live caterpillars ordered for April after half term)</p> <p>Children learn about healthy and unhealthy food. They taste fruits as well as other food, using words sweet and sour. Children wash hands before preparing to cut or peel fruit to make fruit kebabs. We talk about how important it is to drink water, that we need water.</p> <p>Children plant seeds and bulbs in the garden, take out the weeds and remember to water their plants.</p>	<p>Children learn about the features of an elephant, his tusks, trunk, rough skin, how many legs he has, as well as where he lives and what he eats.</p> <p>We look at other jungle animals, naming and identifying where they live.</p> <p>Children learn to sort by habitat. We talk about same and different. Children explore change in materials as we make toast.</p> <p>We observe changes in weather as the buds and blossom start to grow.</p>	<p>Children will use observational skills to search for treasure outdoors, sorting and talking about what they have found.</p> <p>We will identify some common birds and trees.</p> <p>Children will watch the process of eggs hatching into ducklings, we will explore the lifecycle of ducks, where they live, what they need to survive.</p>	<p>Children will learn about growth, how we have changed and what we have learnt to do since starting Nursery.</p> <p>Science will be explored through their interests as well as the topics touched on in the book, eg, space, weather and planting.</p>
Reception/ Development matters/ Early learning goals	<p><b>Seasonal changes</b> Day and Night</p> <p><b>ELG: Understanding the world – The natural world</b></p>	<p><b>Seasonal changes</b> Autumn seasonal walk</p> <p><b>ELG: Understanding the world – The natural world</b> <b>Taught throughout the year.</b></p>	<p><b>THEME: Our Earth and Beyond</b></p> <p><b>Changing Seasons:</b> Whatever the weather <b>Changing Seasons:</b> Winter Wildlife</p> <p><b>ELG: Understanding the world – The natural world</b></p> <p>Explore the natural world around them, making observations and drawing pictures of animals and plants. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p>	<p><b>THEME: In the Garden</b></p> <p><b>Animal Adventures:</b> Describing Minibeasts <b>Animal Adventures:</b> Animals Homes <b>I am a Scientist:</b> Freeze or melt? <b>Changing Seasons:</b> Springtime magic <b>I am a Scientist:</b> Float or sink?</p> <p><b>ELG: Understanding the world – The natural world</b></p> <p>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.</p>	<p><b>THEME: Traditional Tales</b></p> <p><b>Animal Adventures:</b> Farm animals <b>Changing Seasons:</b> Sandcastle Science <b>I am a Scientist:</b> Loud or quiet? <b>I am a Scientist:</b> Light or dark?</p> <p><b>ELG: Understanding the world – The natural world</b></p> <p>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.</p>	<p><b>THEME: All around the world</b></p> <p><b>Animal Adventures:</b> Zoo animals <b>Changing Seasons:</b> Summer senses <b>I am a Scientist:</b> Push or pull?</p> <p><b>ELG: Understanding the world – The natural world</b></p> <p>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.</p>

Year 1	Seasonal Changes Concept: Living things and their habitats	Everyday Materials Concept: Materials	Sensitive Bodies Concept: Animals including Humans	Comparing Animals Concepts: Making Connections	Intro to Plants Concept: Plants	Investigating Science Concept: Making Connections	
Year 2	Life Cycles and Health Concept: Animals including Humans	Everyday Materials Concept: Materials	Habitats Concept: Living things and their habitats	Microhabitats Concept: Living things and their habitats	Plant Growth Concept: Plants	Plant-based materials Concept: Making Connections	
Year 3	Movement and Nutrition Concept: Animals including Humans	Forces and Materials Concept: Forces, Earth and Space /Materials	Rocks and Soil Concept: Forces, Earth and Space	Light and Shadows Concept: Forces, Energy and Space	Plant Reproduction Concept: Plants	Does hand span affect grip strength? Concept: Making Connections	
Year 4	Electricity and Circuits Concept: Forces, Earth and Space	Digestion and Food Concept: Animals including Humans	States of Matter Concept: Material	Sound and vibration Concept: Forces, Earth and Space	Classification and Changing Habitats Concept: Living things and their habitats	How does the flow of liquids compare? Concept: Making Connections	
Year 5	Earth and Space Concept: Forces, Earth and Space	Mixtures and separation Concept: Materials	Properties and Changes Concept: Materials	Life Cycles and Reproduction Concept: Animals including Humans	Unbalanced Forces Concept: Forces, Earth and Space	Human timeline Concept: Making Connection	Does the size of an asteroid affect its impact strength? Concept: Making Connections
Year 6	Circulation and Health Concept: Animals including Humans	Evolution and Inheritance Concept: Animals Including Humans	Circuits, Batteries and Switches Concept: Forces, Earth and Space	Light and Reflection Concept: Forces, Earth and Space	Classifying Big and Small Concept: Living things and its habitats	Are some sunglasses safe than others? Concept: Making Connections	