
































KS1 and KS2 Science at Weetwood – Curriculum map 2024-2025

	Autumn	Spring	Summer		
Year 1					
	<u>Seasonal Changes</u>	<u>Everyday materials</u> <u>Winter and Spring</u>	<u>Animal,</u> <u>including</u> <u>Humans</u> <u>Autumn</u>	<u>Plants</u>	<u>Seasonal Changes</u>
	<p>Autumn: Children will identify features of Autumn and how trees are changing.</p> <p>Winter: Children will look at how animals adapt for winter (hibernate, migrate, adapt). Garden Birds (Bird Week) and how and why we help them.</p>	<p>-Children will <u>name different objects and the materials</u> they are made from.</p> <p>-Children will <u>identify different physical properties</u> of different materials and start to think about what they are used for.</p> <p>-Children will <u>sort</u> different materials based on different properties.</p> <p>Winter -Children will <u>identify features</u> associated with winter, including how animals adapt.</p> <p>Spring -Children will <u>identify signs</u> of Spring <u>changes</u> that are happening.</p>	<p>-Children will <u>name</u> and label different body parts.</p> <p>-They will <u>name and identify</u> the different parts of the body associated with each of the <u>5 senses</u>. -Children will <u>name different animals</u> and <u>identify</u> what group of animals they belong to</p> <p>-Children will <u>label parts of animals</u> and compare and contrast different animals</p> <p>-Children will <u>identify</u> if animals are <u>herbivores</u>, <u>carnivores</u> or <u>omnivores</u>.</p> <p>Autumn -Children will <u>identify features</u> of Autumn and changes.</p>	<p>-Children will <u>name a variety of different plants</u> – wild flowers, garden plants, trees, fruit and vegetables.- Children will look at and <u>name different parts of plants and trees</u>.</p>	<p>-Children will use the information collected over the year to <u>identify different seasons</u>.</p> <p>-They will <u>identify the different weather</u> and <u>day length</u> associated with the different seasons and how day and night length varies through the year.</p>

Year 2					
	Uses of Everyday Materials	Living things and their habitats	Plants	Animal, including Humans	
	-Children will identify everyday materials and compare their suitability for different purposes. -Children will explore how the recycling process can help to reuse some materials.	-Children will learn to identify things which are living, dead or things that have never been alive. -They will make observations of a local habitat and the animals that live there. - Children will look at how animals get their food (plants and animals) and make a simple food chain.	-Children will learn about the different parts of a plant and what makes plants grow. -Children will grow their own plants (seeds and bulbs) and observe changes over time.	-Children will learn what the basic needs are for animals and humans. - Children will look at the lifecycles of a human and an animal -Children will learn about the effects of exercise on the body.	
Working Scientifically	-Children will ask and answer simple questions. -Children will make their own observations about what they see. -Children will identify and classify items , beginning to talk about how they have done so. -Children will gather and record the data they have collected. -Children will use their own observations to answer the question posed.				
Year 3					
	Rocks	Forces and magnets	Animals including Humans	Light and Shadows	Plants
	-Children will compare and group rocks - Children will identify how fossils are formed. -Children will look at soil and what it is made up of.	-Children will compare the friction of different surfaces and materials and how things move on different surfaces. -Children will use magnets to investigate attraction and repel , identifying magnetic and non-magnetic items and predict how a magnet will behave.	- Children will learn about skeletons and their uses and muscles and how they work. -Children will learn about nutrition and types of food (macro and micro nutrients)	-Children will learn that they need light to see and how reflections are made. -The children will identify the sun is a light source and investigate how shadows are made.	-Children will identify and describe functions of plants (roots, stem, leaves, flowers) -They will learn the requirements of plants and what they need grow and look at variations in plants
Year 4					
	States of Matter	Living things and their habitats	Animals, including Humans	Sound	Electricity

	<ul style="list-style-type: none"> -Children will look at the <u>properties of solids, liquids and gases.</u> -They will <u>recognise</u> what causes <u>changes in states</u> (temperature). -Children will also explore the <u>water cycle (evaporation and condensation)</u> and understand it's importance. 	<ul style="list-style-type: none"> -Children will <u>group living things</u>, looking at <u>classification trees</u> (grouping and naming). -They will look at <u>environmental changes and effects.</u> 	<ul style="list-style-type: none"> -Children will learn about the <u>digestive system</u> including the <u>parts</u> and their <u>functions.</u> -They will be able to explain the journey of food. -The children will explore <u>different types of teeth</u> and their <u>function</u> and link this to predators and prey. -They will they look <u>at food chains, producers, predators and prey</u> and create an accurate food chain. 	<ul style="list-style-type: none"> -Children will investigate sound, discovering that <u>vibrations make sound.</u> -They will also <u>explore pitch and volume</u> through an instrument investigation. 	<ul style="list-style-type: none"> -Children will look at <u>uses of electricity.</u> -They will build <u>electrical circuits (cells, wires, bulbs, switches, buzzer).</u> -Children will explore <u>conductors and insulators</u> through investigations.
Working Scientifically	<ul style="list-style-type: none"> -Children will <u>ask and answer questions</u> about what they want to find out. -Children will <u>set up</u> their own enquiries. -Children will talk about <u>the importance of fair tests</u> and how to make them fair. -Children will <u>use standard units</u> to measure. -Children will <u>gather, record and present</u> data and findings -Children will <u>report</u> on their findings -Children will <u>use their results</u> for conclusions -Children will <u>identify differences, similarities and changes.</u> 				
Year 5					
	Materials and their properties	Earth and Space	Forces	Living things in their habitat	Animals including humans
	<ul style="list-style-type: none"> -Children will <u>sort and classify</u> different materials based on different properties and <u>use evidence</u> to identify their <u>suitability</u> for uses. - Children will look at how materials change through <u>dissolving, mixing and separating</u> and how new materials can be created. 	<ul style="list-style-type: none"> -Children will look at the <u>movements of planets and the moon</u> relative to Earth and the sun. - Children will <u>explain day and night</u> using the Earth's rotation. 	<ul style="list-style-type: none"> -Children will look at balanced and unbalanced forces through <u>resistance and friction</u> - Children will use and explore the effects of mechanisms such as <u>gears, levers and pulleys.</u> -Children will learn about Isaac Newton and his discovery of <u>gravity.</u> 	<ul style="list-style-type: none"> -Children will learn about the <u>life cycles of different animals</u> (mammals, birds, insects and amphibians) <u>and identify differences.</u> -Children will look at <u>the reproduction of plants and animals.</u> 	<ul style="list-style-type: none"> -Children will look at the <u>changes that humans</u> experience through to old age, including puberty as children move in to adulthood. -They will look at the <u>life cycle of humans.</u>
Year 6					
	Living Things and their habitats	Evolution and Inheritance	Electricity	Light	Animals including Humans

	<p>-Children will describe how living things are <u>classified into broad groups</u> according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals.</p> <p>-The children will <u>give reasons</u> for classifying plants and animals based on specific characteristics.</p>	<p>-Children will recognise that <u>living things have changed</u> over time and that <u>fossils</u> provide information about living things that inhabited the Earth millions of years ago. They will research the early palaeontologists and naturalists.</p> <p>-Children will recognise that living things produce <u>offspring of the same kind</u>, but normally offspring <u>vary and are not identical</u> to their parents.</p> <p>-They will identify how <u>animals and plants are adapted to suit their environment</u> in different ways and that adaptation may lead to evolution.</p>	<p>-Children will investigate the <u>voltage</u> of cells and how this effects the brightness of bulbs, volume of buzzers, switches and <u>compare different components</u>.</p> <p>-They will use <u>recognised symbols when representing</u> a simple circuit in a diagram.</p>	<p>-Children will recognise that <u>light travels in straight lines</u>.</p> <p>-They will investigate <u>reflection, refraction and shadows</u>.</p> <p>-Children will learn about how <u>light sources travel to our eyes</u> in-order to see things.</p>	<p>-Children will <u>identify and name the main parts of the human circulatory system</u> and <u>describe the functions</u> of the heart.</p> <p>- They will study <u>blood vessels</u> and recognise the <u>impact of diet, exercise, drugs and lifestyle</u> on the way their bodies function. ---They will describe the ways in which <u>nutrients and water are transported</u> within animals, including humans.</p>
Working Scientifically	<ul style="list-style-type: none"> - Children will <u>plan enquiries</u> to answer questions - Children will take measurements using <u>scientific equipment</u> - Children will <u>record</u> data and results in more complex ways - Children will <u>use results</u> to make <u>further predictions</u> and test - Children will <u>report, present and explain</u> findings (written and oral) - Children will <u>identify scientific evidence</u>. 				