



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>People Who Help Me at Home Explore the stories <i>Superhero Dad and My Mum</i></p> <p>Same or Different <i>Similarities/differences – eye colour, height</i> Talk about the lives of the people around them and their roles in society. Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps.</p>	<p>Dinner Time <i>Find out what animals eat</i> Yuk! <i>Explore how food changes over time (growth and decay)</i></p> <p>Wild Ones <i>Difference between wild animals and pets</i></p> <p>Explore the natural world around them, making observations and drawing pictures of animals and plants.</p> <p>Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p>	<p>Yawn <i>Why is sleep important? Make a sleep diary</i></p> <p>Night Time Visitors <i>Exploring nocturnal animals</i></p> <p>Why it is Dark at Night <i>Use the Dark Den to explore dark, light and shadows</i> Explore the natural world around them, making observations and drawing pictures of animals and plants.</p> <p>Understand some important processes and changes in the natural world around them</p>	<p>Giant Turnips <i>Planting and growing turnips, observing changes</i></p> <p>Disappearing Gingerbread Man <i>What happens to the GBM in the rive – dissolving</i> Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p>	<p>Air, Road or Water <i>Compare and sort vehicles, how the move, old/new</i></p> <p>Boat Builder Challenge <i>Explore floating and sinking</i> Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps.</p>	<p>Sally's Limpet <i>Look at different animals found in a rock pool</i></p> <p>Who Eats Who? <i>Explore simple food chains</i></p> <p>Cornwall Local Study 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. Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class.</p>

Year 1	<p>Seasonal changes</p> <ul style="list-style-type: none"> - observe changes across the four seasons. - observe and describe weather associated with the seasons and how day length varies. 	<p>Animals including humans</p> <ul style="list-style-type: none"> - identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense 	<p>Everyday materials</p> <ul style="list-style-type: none"> - distinguish between an object and the material from which it is made. - identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock. - describe the simple physical properties of a variety of everyday materials. - compare and group together a variety of everyday materials on the basis of their simple physical properties. 	<p>Plants</p> <ul style="list-style-type: none"> - identify and name a variety of common wild and garden plants including deciduous and evergreen trees. - identify and describe the basic structure of a variety of common flowering plants including trees. 	<p>Animals including humans</p> <ul style="list-style-type: none"> - identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. - identify and name a variety of common animals that are carnivores, omnivores and herbivores. - describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets).
Year 2	<p>Living things and their habitats</p> <ul style="list-style-type: none"> - explore and compare the differences between things that are living, dead and things that have never been alive. - identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plant and how they depend on each other. - identify and name a variety of plants and animals in their habitats including microhabitats. 	<p>Everyday materials</p> <ul style="list-style-type: none"> - identify and compare the suitability of a variety of everyday materials including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. - find out how the shape of solid objects made from some 	<p>Animals including humans</p> <ul style="list-style-type: none"> - describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene. 	<p>Plants</p> <ul style="list-style-type: none"> - observe and describe how seeds and bulbs grow into mature plants. - find out and describe how plants need water, light and suitable temperature to grow and stay healthy. 	<p>Animals including humans</p> <ul style="list-style-type: none"> - notice that animals including humans have offspring, which grow into adults. - find out about and describe the basic need of animals including humans for

	- describe how animals obtain their food from plants and other animals using the idea of a simple food chain and identify and name different sources of food.		materials can be changed by squashing, bending, twisting and stretching.			survival (water, food and air).
Year 3	<p>Animals including humans</p> <ul style="list-style-type: none"> - identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their own food; they get their nutrition from what they eat. - identify that humans and some other animals have skeletons and muscles for support, protect and movement. 	<p>Forces and magnets</p> <ul style="list-style-type: none"> - compare how things move on different surfaces. - notice that some forces need contact between two objects but magnetic forces can act at a distance. - observe how magnets attract or repel each other and attract some materials and not others. - compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet and identify magnetic materials. 	<p>Plants</p> <ul style="list-style-type: none"> - identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. - explore the requirements of plants for life and growth (air, light, water, nutrients from soil and room to grow) and how they vary from plant to plant. - investigate the way in which water is transported within plants. - explore the part that flowers play in the lifecycle of flowering 	<p>Rocks</p> <ul style="list-style-type: none"> - compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. - describe in simple terms how fossils are formed when things that have lived are trapped within rock. - recognise that soils are made from rocks and organic matter. 	<p>Light</p> <ul style="list-style-type: none"> - recognise that they need light in order to see things and that dark is the absence of light. - notice that light is reflected from surfaces. - recognise that light from the sun can be dangerous and that there are ways to protect their eyes. - recognise that shadows are formed when light from a light source is blocked by an opaque object. - find patterns in the way that the size of the shadows change. 	
Year 4	<p>Living things and their habitats</p> <ul style="list-style-type: none"> - recognise that living things can be grouped in a variety of ways. - explore and use classification keys to help group, identify and name 	<p>Sound</p> <ul style="list-style-type: none"> - identify how sounds are made, associating some of them with something vibrating. - recognise that vibrations from sound travel through a medium to the ear. 	<p>Animals including humans</p> <ul style="list-style-type: none"> - describe the simple functions of the basic parts of the digestive system in humans - identify the different types of 	<p>States of matter</p> <ul style="list-style-type: none"> - compare and group materials together, according to whether they are solids, liquids or gases. - observe that some materials change 	<p>Electricity</p> <ul style="list-style-type: none"> - identify common appliances that run on electricity. - construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. 	

	<p>a variety of living things in their local and wider environment.</p> <ul style="list-style-type: none"> - recognise that environments can change and that this can sometimes pose dangers to living things. 	<ul style="list-style-type: none"> - find patterns between the pitch of a sound and features of the object that produced it. - find patterns between the volume of a sound and the strength of the vibrations that produced it. - recognise that sounds gets fainter as the distance from the sound source increases. 	<p>teeth in humans and their simple functions.</p> <ul style="list-style-type: none"> - construct and interpret a variety of food chains. 	<p>state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius.</p> <ul style="list-style-type: none"> - identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. - recognise some common conductors and insulators and associate metals with being good conductors. 	<ul style="list-style-type: none"> - identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. - recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple circuit.
Year 5	<p>Animals including humans</p> <ul style="list-style-type: none"> - describe the changes as humans develop to old age. 	<p>Properties and changes of materials</p> <ul style="list-style-type: none"> - compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. - know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. - use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating 	<p>Earth and space</p> <ul style="list-style-type: none"> - describe the movement of the Earth and other planets relative to the sun in the solar system. - describe the movement of the moon relative to the Earth. - describe the sun, Earth and moon as approximately spherical bodies. 	<p>Living things and their habitats</p> <ul style="list-style-type: none"> - describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. - describe the process of reproduction in some plants and animals. 	<p>Forces</p> <ul style="list-style-type: none"> - explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object - identify the effects of air resistance, water resistance and friction, that act between moving surfaces - recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect

		<ul style="list-style-type: none"> - give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. - demonstrate that dissolving, mixing and changes of state are reversible changes. - explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. 	<ul style="list-style-type: none"> - use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. 		
Year 6	<p>Animals including humans</p> <ul style="list-style-type: none"> - identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood - recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function - describe the ways in which nutrients and water are transported within animals, including humans 	<p>Living things and their habitats</p> <ul style="list-style-type: none"> - describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals - give reasons for classifying plants and animals based on specific characteristics 	<p>Evolution and inheritance</p> <ul style="list-style-type: none"> - recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago - recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents - identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution 	<p>Light</p> <ul style="list-style-type: none"> - recognise that light appears to travel in straight lines - use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye - explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes - use the idea that light travels in straight lines to explain why shadows have the 	<p>Electricity</p> <ul style="list-style-type: none"> - associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit - compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches - use recognised symbols when representing a simple circuit in a diagram.

				same shape as the objects that cast them	
Key Skills Progression	<p>EYFS Understanding the World: The World</p> <ul style="list-style-type: none"> - Looks closely at similarities, differences, patterns and change. <p>ELG – Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes.</p>	<p>Key stage 1 – Scientific skills</p> <p>During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:</p> <ul style="list-style-type: none"> - asking simple questions and recognising that they can be answered in different ways - observing closely, using simple equipment - performing simple tests - identifying and classifying - using their observations and ideas to suggest answers to questions - gathering and recording data to help in answering questions. 	<p>Lower Key Stage 2 – Scientific skills</p> <p>During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:</p> <ul style="list-style-type: none"> - asking relevant questions and using different types of scientific enquiries to answer them - setting up simple practical enquiries, comparative and fair tests - making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers - gathering, recording, classifying and presenting data in a variety of ways to help in answering questions - recording findings using simple scientific language, 	<p>Upper Key Stage 2 – Scientific skills</p> <p>During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:</p> <ul style="list-style-type: none"> - planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary - taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate - recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs 	

			<p>drawings, labelled diagrams, keys, bar charts, and tables</p> <ul style="list-style-type: none"> - reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions - using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions - identifying differences, similarities or changes related to simple scientific ideas and processes - using straightforward scientific evidence to answer questions or to support their findings. 	<ul style="list-style-type: none"> - using test results to make predictions to set up further comparative and fair tests - reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations - identifying scientific evidence that has been used to support or refute ideas or arguments
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