



Christ Church C of E Primary – Science Progression Map

	EYFS		KS1		KS2			
	Nursery	Reception	Year 1	Year 2	Year3	Year 4	Year 5	Year 6
Plants	<p>Understanding the World To grow plants from seeds and care for them.</p> <p>To observe changes to plants over time.</p>	<p>Understanding the World To name parts of a plant (petal, stem, roots) and understand what plants need to grow.</p> <p>To look after their own plant.</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>Observe and describe how seeds and bulbs grow into mature plants.</p> <ul style="list-style-type: none"> Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Identify and name a variety of plants and animals in their habitats, including microhabitats. (Y2 - Living things and their habitats) 	<p>Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.</p> <ul style="list-style-type: none"> 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 life cycle of flowering plants, including pollination, seed formation and seed dispersal. 	<p>Recognise that living things can be grouped in a variety of ways. (Y4 - Living things and their habitats)</p> <ul style="list-style-type: none"> Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. (Y4 - Living things and their habitats) Recognise that environments can change and that this can sometimes pose dangers to living things. (Y4 - Living things and their habitats) 	<p>Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats)</p>	<p>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. (Y6 - Living things and their habitats)</p> <ul style="list-style-type: none"> Give reasons for classifying plants and animals based on specific characteristics. (Y6 - Living things and their habitats)

<p>Living Things and their habitats</p>	<p>Understanding the World To show respect and care for their environment.</p> <p>To name some animals and where they live.</p>	<p>Understanding the World To understand the human lifecycle and how we grow and change. To develop an understanding of a lifecycle.</p> <p>To understand some animal habitats and why lives in the.</p>	<p>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. (Y1 - Plants)</p> <ul style="list-style-type: none"> Identify and describe the basic structure of a variety of common flowering plants, including trees. (Y1 - Plants) Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. (Y1 - Animals including humans) Identify and name a variety of common animals that are carnivores, herbivores and omnivores. (Y1 - Animals including humans) Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, 	<p>Explore and compare the differences between things that are living, dead, and things that have never been alive.</p> <ul style="list-style-type: none"> 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 plants, and how they depend on each other. Identify and name a variety of plants and animals in their habitats, including microhabitats. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and 	<p>Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. (Y3 - Plants)</p>	<p>Recognise that living things can be grouped in a variety of ways.</p> <ul style="list-style-type: none"> Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. Recognise that environments can change and that this can sometimes pose dangers to living things. Construct and interpret a variety of food chains, identifying producers, predators and prey. (Y4 - Animals, including humans) 	<p>Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</p> <ul style="list-style-type: none"> Describe the life process of reproduction in some plants and animals. 	<p>Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.</p> <ul style="list-style-type: none"> Give reasons for classifying plants and animals based on specific characteristics.
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			including pets). (Y1 – Animals, including humans) • Observe changes across the four seasons. (Y1 - Seasonal change)	identify and name different sources of food. • Notice that animals, including humans, have offspring which grow into adults. (Y2 - Animals including humans)				
Animals including humans	Understanding the World To name parts of the body. To name some animals and where they live.	Understanding the World To understand the human lifecycle and how we grow and change. PSED To understand why it is important to keep ourselves healthy and understand the importance of healthy food choices.	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, herbivores and omnivores. • Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). • Identify, name, draw and label the basic parts of the human body and say which part of the body is	Notice that animals, including humans, have offspring which grow into adults. • Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). • Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. • Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Describe the simple functions of the basic parts of the digestive system in humans. • Identify the different types of teeth in humans and their simple functions. • Construct and interpret a variety of food chains, identifying producers, predators and prey.	Describe the changes as humans develop to old age. • Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. (Y5 - Living things and their habitats) • Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats)	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. • Describe how living things are classified into broad groups according to common

			associated with each sense.					<p>observable characteristics and based on similarities and differences, including micro-organisms, plants and animals. (Y6 - Living things and their habitats)</p> <ul style="list-style-type: none"> • Give reasons for classifying plants and animals based on specific characteristics. (Y6 - Living things and their habitats)
Evolution and inheritance	N/A	N/A	N/A	<p>Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of</p> <p>different kinds of animals and plants, and how they depend on each other. (Y2 - Living things and their habitats)</p>	Describe in simple terms how fossils are formed when things that have lived are trapped within rock. (Y3 - Rocks)	Recognise that environments can change and that this can sometimes pose dangers to living things. (Y4 - Living things and their habitats)	N/A	<p>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of</p> <p>years ago.</p> <ul style="list-style-type: none"> • 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.
Seasonal Changes	<p>Understanding the World To show respect and care for their environment.</p> <p>To explore their world and environment through their senses.</p> <p>To explore the changing weather.</p> <p>To learn about new life and plants based around spring time.</p>	<p>Understanding the World To learn about the seasons and know it is autumn.</p>	<p>Observe changes across the four seasons.</p> <ul style="list-style-type: none"> Observe and describe weather associated with the seasons and how day length varies. 	N/A	<p>Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. (Y3 - Light)</p>	N/A	<p>Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. (Y5 - Earth and space)</p>	<p>The seasons and the Earth's tilt, day length at different times of year, in different hemispheres.</p>
Materials	<p>Understanding the World To explore a range of materials.</p> <p>To explore changing states of matter. (Solid to Liquid – Melting)</p> <p>To notice changes such as ice melting in the sun.</p>	<p>Understanding the World To identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and paper.</p> <p>To begin to understand what recycle means and why we should do it.</p>	<p>Distinguish between an object and the material from which it is made.</p> <ul style="list-style-type: none"> Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical 	<p>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard</p> <p>for particular uses.</p> <ul style="list-style-type: none"> Find out how the shapes of 	<p>Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. (Y3 - Rocks)</p> <ul style="list-style-type: none"> Describe in simple terms how fossils are formed when things that have lived are trapped within rock. (Y3 - Rocks) 	<p>Compare and group materials together, according to whether they are solids, liquids or gases.</p> <ul style="list-style-type: none"> Observe that some materials change state when they are heated or cooled, and measure or research the temperature at 	<p>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.</p>	N/A

			<p>properties of a variety of everyday materials.</p> <ul style="list-style-type: none"> • Compare and group together a variety of everyday materials on the basis of their simple physical properties. 	<p>solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p>	<ul style="list-style-type: none"> • Notice that some forces need contact between two objects, but magnetic forces can act at a distance. (Y3 - Forces and magnets) 	<p>which this happens in degrees Celsius (°C).</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. 	<ul style="list-style-type: none"> • 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. • 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 	
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							usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	
Rocks	N/A	N/A	<p>Distinguish between an object and the material from which it is made. (Y1 - Everyday materials)</p> <ul style="list-style-type: none"> Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. (Y1 - Everyday materials) Describe the simple physical properties of a variety of everyday materials. (Y1 - Everyday materials) Compare and group together a variety of everyday materials on the basis of their simple physical properties. (Y1 - 	<p>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard</p> <p>for particular uses. (Y2 - Uses of everyday materials)</p>	N/A	N/A	N/A	<p>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of</p> <p>years ago. (Y6 - Evolution and inheritance)</p>

			Everyday materials)					
Light	N/A	N/A	Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 - Animals, including humans)	N/A	Recognise that they need light in order to see things and that dark is the absence of light. <ul style="list-style-type: none"> • 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 the light from a light source is blocked by an opaque object. • Find patterns in the way that the size of shadows change. 	N/A	N/A	Recognise that light appears to travel in straight lines. <ul style="list-style-type: none"> • 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 same shape as the objects that cast them.
Forces	N/A	N/A	N/A	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Y2 -	Compare how things move on different surfaces. <ul style="list-style-type: none"> • Notice that some forces need contact between two objects, but magnetic forces 	N/A	Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.	N/A

				Uses of everyday materials)	<p>can act at a distance.</p> <ul style="list-style-type: none"> • 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 some magnetic materials. • Describe magnets as having two poles. • Predict whether two magnets will attract or repel each other, depending on which poles are facing. 		<ul style="list-style-type: none"> • 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. 	
Sound	N/A	N/A	Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 - Animals, including humans)	N/A	N/A	<ul style="list-style-type: none"> • Identify how sounds are made, associating some of them with something vibrating. • Recognise that vibrations from sounds travel through a medium to the ear. 	N/A	N/A

						<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 get fainter as the distance from the sound source increases. 		
Electricity	N/A	N/A	N/A	N/A	N/A	<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. • 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. 	N/A	<p>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.</p> <ul style="list-style-type: none"> • 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

						<ul style="list-style-type: none"> • Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. • Recognise some common conductors and insulators, and associate metals with being good conductors. 		simple circuit in a diagram.
Earth and space	N/A	N/A	<ul style="list-style-type: none"> • Observe changes across the four seasons. (Y1 - Seasonal changes) • Observe and describe weather associated with the seasons and how day length varies. (Y1 - Seasonal changes) 	N/A	N/A	N/A	<p>Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.</p> <ul style="list-style-type: none"> • Describe the movement of the Moon relative to the Earth. • Describe the Sun, Earth and Moon as approximately spherical bodies. • Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. 	N/A