 Science Progression							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
 Explore the natural world around them making observations and drawing pictures of animals and plants 	 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. 	 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. 	 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, drawings, labelled diagrams, keys, bar charts, and tables 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 	 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, drawings, labelled diagrams, keys, bar charts, and tables 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 	 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 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 a degree of trust in results, in oral and written forms such as displays and other presentations 	 Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter 	

	 Explore the natural world around them making observations and drawing pictures of 	 identify and name a variety of common wild and garden plants, including deciduous and evergreen trees 	 observe and describe how seeds and bulbs grow into mature plants find out and describe how 	• identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and			
Plants	animals and plants	 identify and describe the basic structure of a variety of common flowering 	plants need water, light and a suitable temperature to grow and stay healthy	 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 life cycle of flowering plants, including pollination, seed formation and seed dispersal 			
Animals, inc. Humans	 different factors that support their overall health and wellbeing: regular physical activity healthy eating toothbrushing sensible amounts of 'screen time' 	 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 associated with each sense 	 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. 	 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.
Seasonal Changes	 Explore the natural world around them. Describe what they see, 	 observe changes across the 4 seasons; observe and describe 	• explore and compare the differences between things that are living, dead, and this as that here means		 recognise that living things can be grouped in a variety of ways; 	 describe the differences in the life cycles of a mammal, an amphibian, 	things are classified into broad groups according
Living things and their habitats	hear and feel whilst outside.	weather associated with the seasons and how day length varies.	things that have never been alive;		 explore and use classification keys to help group, identify and name a 	an insect and a bird;	to common observable characteristics and based on similarities and

Earth and Space	Recognise some	 identify that most living 		variety of living things in	• describe the life process of	differences, including
	environments that are	things live in habitats to		their local and wider	reproduction in some	micro-organisms, plants
Evolution and	different to the one in	which they are suited and		environment;	plants and animals.	and animals;
Inheritance	which they live.	describe how different		 recognise that 	• describe the movement of	• give reasons for
		habitats provide for the		environments can change	the Earth and other	classifying plants and
		basic needs of different		and that this can	planets relative to the Sun	animals based on specific
		kinds of animals and		sometimes pose dangers	in the solar system;	characteristics.
		plants, and how they		to living things.	 describe the movement of 	
		depend on each other;			• the Moon relative to the	things have changed over
		 identify and name a variet 	v		Earth;	time and that fossils
		of plants and animals in	, ,			provide information
		their habitats, including			• describe the Sun, Earth	about living things that
		microhabitats;			and Moon as	inhabited the Earth
		describe how animals			approximately spherical	millions of years ago;
		• describe now animals obtain their food from			bodies;	
		plants and other animals,			• use the idea of the Earth's	recognise that living things produce offension
		using the idea of a simple			rotation to explain day and	things produce offspring
		food chain, and identify			night and the apparent	of the same kind, but
		and name different			movement of the sun	normally offspring vary
		sources of food.			across the sky.	and are not identical to
		sources of food.				their parents;
						• identify how animals and
						plants are adapted to suit
						their environment in
						different ways and that
						adaptation may lead to
						evolution.
	• Explore the natural		• compare how things move		 explain that unsupported 	
	world around them.		on		objects fall towards the	
	• Describe what they see,		different surfaces;		Earth because of the force	
	hear and feel whilst		 notice that some forces 		of gravity acting between	
	outside		need contact between 2		the Earth and the falling	
			objects, but magnetic		object;	
			forces can act at a		• identify the effects of air	
			distance;		resistance, water	
			• observe how magnets		resistance	
Forces and			attract or repel each other		and friction, that act	
magnets			and attract some materials		between moving surfaces;	
			and not others;		 recognise that some 	
			 compare and group 		mechanisms including	
			together		levers, pulleys and gears	
			a variety of everyday		allow a smaller force to	
			materials on the basis of		have a greater effect.	
			whether they are attracted			
			to a magnet, and identify			
			some magnetic materials;			
			some magnetic materials,			

			• describe magnets as	
			having 2 poles;	
			• predict whether 2 magnets	
			will attract or repel each	
			other, depending on which	
			poles are facing.	
Light and Sound			 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 the light from a light source is blocked by an opaque object; find patterns in the way 	 identify how sounds are made, associating some of them with something vibrating; recognise that vibrations from sounds travel through a medium to the ear; 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
	 find patterns in the way that the size of shadows change. Image: Change in the way that the size of shadows change. 	from the sound source increases. • identify common		
				appliances that run on electricity;
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;
				recognise that a switch
				opens and closes a circuit

 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 same shape as the objects that cast them.
 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.

				 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. 	
Materials	 important processes and changes in the natural world around them including the seasons and changing states of matter. identify of every including glass, m rock; describe propert everydate compart togethe everydate 	 ish between an and the material hich it is made; v and name a variety yday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses; find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. 	 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. 	 compare and group materials together, according to whether they are solids, liquids or gases; observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C); identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. 	 comparing to get the indicator of the indica

pare and group ther everyday erials on the basis of r properties, including r hardness, solubility, sparency, conductivity etrical and thermal), response to magnets; w that some materials dissolve in liquid to n a solution, and

cribe how to recover a stance from a solution; knowledge of solids, ds and gases to decide mixtures might be arated, including

ugh filtering, sieving evaporating; reasons, based on

ence from parative and fair tests, he particular uses of

yday materials, uding metals, wood plastic;

onstrate that olving, mixing and nges of state are rsible changes;

ain that some changes It in the formation of materials, and that kind of change is not ally reversible, iding changes

ciated with burning the action of acid on rbonate of soda.