

<u>Science</u>

		Key pro	gression	
	Y3	Y4	Y5	Y6
	To be able to ask relevant questions and use different types of scientific enquires to answer them. To set up simple practical enquires comparative and fair tests.		To be able to plan different types of scientific enquires to answer questions, including recognising and controlling variables where necessary.	
Working scientifically	To make systematic and careful observations and, where appropriate, take accurate measurement using standard units, using a rage of equipment (thermometers and data loggers).		To be able to take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.	
	To be able to gather, record, classify and present data in a variety of ways to help in answering questions. To record findings, using simple scientific languages, drawings, labelled diagrams, or presentations of results and conclusions. To report on findings from enquires, including oral and written explanations, displays or presentations of results and conclusions.		To record data and results of increasing complexity, using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. To report and present findings from enquires, including: conclusions, casual relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.	
	To use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. To identify differences, similarities or changes related to simple scientific ideas and processes.		To use test results to make predictions to set up further comparative and fair tests. To identify scientific evidence that has been used to support or refute ideas or arguments.	
	To use straightforward scientific evidence to answer question	ons or to support their findings.		
Plants and animals	To identify and describe the functions of different parts of flowing plants: roots, stem/trunk, leaves and flowers. To investigate how water is transported within plants.			
	To explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.		To describe the changes as humans develop into old age. To describe the differences in the life cycles of a mammal, amphibian, insect and bird.	
	To 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.		To describe the life process of reproduction in some plants and animals.	
		To recognise that living things can be grouped in a variety of ways. To explore and use classification keys to help group, identify and name a variety of living things (in the local and wider environment).		To 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). To give reasons for classifying plants and animals, based on specific characteristics. To recognise that living things have changed over time.

				To know that fossils provide information about living
				things that inhabited the earth millions of years ago.
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				To recognise that living things produce offspring of the
				same kind, but they vary and are not identical to their
				parents.
	To identify that animals, including humans, need the right	To construct and interpret a variety of food chains,		To recognise the impact of diet, exercise, drugs and
	types and amount of nutrition.	identifying producers, predators and prey.		lifestyle on the way the body functions.
	types and amount of national	dentifying producers, predators and prey.		mestyle on the way the body functions.
	To know that animals, including humans, cannot make			To describe how nutrients and water are transported
	their own food; they get nutrition from what they eat.	To recognise that environments can change and that this		within animals, including humans.
	then own rood, they get nathtion from what they eat.	can sometimes pose dangers to living things.		within animals, merading namans.
		can sometimes pose dangers to hving things.		To identify how animals and plants have adapted to suit
				their environment in different ways.
				their environment in unference ways.
				To know that adaptation leads to evolution.
	To identify that humans and some other animals have	To identify the different types of teeth in humans and		To identify and name the main parts of the circulatory
	skeletons and muscles for support, protection and	their simple functions.		system.
	movement.	their simple randictions.		System.
		To describe the simple functions of the basic parts of the		To describe the functions of the heart, blood vessels and
		digestive system in humans.		blood.
	To recognise that soils are made from rocks and organic		To give reasons, based on evidence from comparative and	
	matter.		fair tests, for the particular uses of everyday materials,	
			including metals, wood and plastic.	
	To describe, in simple terms, how fossils are formed when		6 ,	
	things that have lived are trapped within rock.			
	To compare and group together different kinds of rocks	To compare and group materials together, according to	To compare and group together everyday materials on	
<u>%</u>	on the basis of their appearance and simple physical	whether they are solids, liquids or gases.	the basis of their properties, including their hardness,	
ria	properties.	, , , , ,	solubility, transparency, conductivity (electrical and	
ate			thermal), and response to magnets.	
and materials.		To observe that some materials change state when they	To demonstrate that dissolving, mixing and changes of	
and		are heated or cooled, and measure or research the	state are reversible changes.	
		temperature at which this happens in degrees Celsius (°C)		
matter			To explain that some changes result in the formation of	
		To identify the part played by evaporation and	new materials, and that this kind of change is not usually	
ces		condensation in the water cycle and associate the rate of	reversible, including changes associated with burning and	
an		evaporation with temperature.	the action of acid on bicarbonate of soda.	
Substances,				
Su			To use knowledge of solids, liquids and gases to decide	
			how mixtures might be separated, including through	
			filtering, sieving and evaporation.	
			To know that some materials will dissolve in liquid to form	
			a solution, and describe how to recover a substance from	
			a solution.	
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	To recognise that they need light in order to see things	To identify how sounds are made, associating some of		To recognise that light appears to travel in straight lines
	To recognise that they need light in order to see things and that dark is the absence of light.	them with something vibrating.		To recognise that light appears to travel in straight lines,
Light and sound	and that dark is the assense of light.	them was something visitating.		To use the idea that light travels in straight lines to explain
	To notice that light is reflected from surfaces.	To recognise that vibrations from sounds travel through a		that objects are seen because they give out or reflect light
	To account the Birth Country of the decree of	medium to the ear.		into the eye.
	To recognise that light from the sun can be dangerous and that there are ways to protect their eyes.	To recognise that sounds get fainter as the distance from		To explain that we see things because light travels from
	that there are ways to protect their eyes.	the sound source increases.		light sources to our eyes or from light sources to objects
	To recognise that shadows are formed when the light			and then into our eyes.
<u> </u>	from a light source is blocked by an opaque object.	To find patterns between the pitch of a sound and		
	To find patterns in the way that the size of shadows	features of the object that produced it.		To use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that
	change.	To find patterns between the volume of a sound and the		cast them.
	change.	strength of the vibrations that produced it.		Cast them.
	To compare how things move on different surfaces.		To identify the effects of air resistance, water resistance	
			and friction, which act between moving surfaces.	
			To explain that unsupported objects fall towards the Earth	
			because of the force of gravity acting between the Earth	
			and the falling object.	
ဖှ			To recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater	
magnets			effect.	
mag	To notice that some forces need contact between two			
and	objects, but magnetic forces can act at a distance.			
es a	To observe how magnets attract or repel each other and			
Forces	attract some materials and not others.			
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	To compare and group together a variety of everyday			
	materials on the bases of whether they are attracted to a magnet, and identify some magnetic materials.			
	To describe magnets as having two poles.			
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	To predict whether two magnets will attract or repel each			
	other, depending on which poles are facing.	To identify common appliances that you an electricity		
		To identify common appliances that run on electricity.		
		To construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs,		To associate the brightness of a lamp or the volume of a
		switches and buzzers.		buzzer with the number and voltage of cells used in the circuit.
		To identify whether or not a lamp will light in a simple		
		series circuit, based on whether or not the lamp is part of		To compare and give reasons for variations in how
ctricity		a complete loop with a battery.		components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of
Electri		To recognise that a switch opens and closes a circuit and		switches.
		associate this with whether or not a lamp lights in a		
		simple series circuit.		To use recognised symbols when representing a simple circuit in a diagram.
				Circuit III a ulagraiii.
		To recognise some common conductors and insulators,		
		and associate metals with being good conductors.		

	To describe the movement of the Earth, and other
	planets, relative to the Sun in the solar system.
space.	To describe the movement of the Moon relative to the Earth.
Earth and	To describe the Sun, Earth and Moon as approximately spherical bodies.
	To use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.