

EYFS							
19-24 months	25-30 months	31-36 months	37-42 months	43-48 months	49-54 months		
Talks about or responds to what they are seeing or experiencing in the natural world.	Re-enacts experiences using resources.	Able to share things they know about including the places which are familiar to them (parks, shops).	Shows care and concern for living things and the environment.	Responds to experiences and explorations of why things happen and how things work in the 'natural' and 'made' world.	Looks closely at similarities, differences, patterns and change in own environment and that of others.		
55-60 months	61-66 months		67+ months				
Knows that living things live, grow and die.			Knows that the environment and living things are influenced by human activity. Can describe some actions which people in their own community do that helps to maintain the area they live in. Knows the properties of some materials and can suggest some of the purposes they are used for.				

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	Y1	Y2	Y3	Y4	Y5	Y6
Working Scientifically	be answered in different observing closely, using performing simple tests identifying and classifyi using their observations questions	methods, processes and skills ogramme of study content: and recognising that they can ways simple equipment	tests making systematic and care appropriate, taking accurate units, using a range of equipand data loggers gathering, recording, classif variety of ways to help in at recording findings using sin drawings, labelled diagrams reporting on findings from written explanations, displatand conclusions using results to draw simple for new values, suggest impounts.	hods, processes and skills amme of study content: ad using different types of er them inquiries, comparative and fair ful observations and, where measurements using standard oment, including thermometers tying and presenting data in a asswering questions and tables enquiries, including oral and ys or presentations of results are conclusions, make predictions rovements and raise further idiarities or changes related to processes iffic evidence to answer	answer questions, include variables where necessare taking measurements, us equipment, with increase taking repeat readings we recording data and result using scientific diagram tables, scatter graphs, but using test results to make comparative and fair tester proporting and presenting including conclusions, conclus	methods, processes and skills ogramme of study content: of scientific enquiries to ling recognising and controlling ry sing a range of scientific ing accuracy and precision, then appropriate ts of increasing complexity s and labels, classification keys, ar and line graphs e predictions to set up further ts findings from enquiries, ausal relationships and ree of trust in results, in oral as displays and other
Plants	Pupils should be taught to: identify and name a variety of common wild and garden plants, including	Pupils should be taught to: observe and describe how seeds and bulbs grow into mature plants find out and describe how plants need water,	Pupils should be taught to: • identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers			

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	deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees.	light and a suitable temperature to grow and stay healthy.	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, including humans	Pupils should be taught to: 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.	Pupils should be taught to: 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.	Pupils should be taught to: 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.	Pupils should be taught to: 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.	Pupils should be taught to: describe the changes as humans develop to old age.	Pupils should be taught to: 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.
Everyday materials/ use of everyday materials/ properties and	Pupils should be taught to: distinguish between an object and the material from which it is made	Pupils should be taught to: • identify and compare the suitability of a variety of everyday materials, including			Pupils should be taught to: compare and group together everyday materials on the basis of their properties,	

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changes of materials	identify and name a	wood, metal, plastic,		including their
materiais	variety of everyday	glass, brick, rock, paper		hardness, solubility,
	materials, including	and cardboard for		transparency,
	wood, plastic, glass,	particular uses		conductivity (electrical
	metal, water, and rock	 find out how the shapes 		and thermal), and
	 describe the simple 	of solid objects made		response to magnets
	physical properties of	from some materials		know that some
	a variety of everyday	can be changed by		materials will dissolve
	materials	squashing, bending,		in liquid to form a
	 compare and group 	twisting and stretching.		solution, and describe
	together a variety of			how to recover a
	everyday materials on			substance from a
	the basis of their			solution
	simple physical			use knowledge of
	properties.			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
				usually reversible,
				including changes
				associated with
				burning and the action
				of acid on bicarbonate
				 of soda.
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Seasonal changes	Pupils should be taught to: observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies.					
Living things and their habitats		Pupils should be taught to: explore and compare the differences between things that are living, dead, and things that have never been alive didentify 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 dientify and name a variety of plants and animals in their habitats, including micro-habitats 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.		Pupils should be taught to: recognise that living things can be grouped in a variety of ways 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.	Pupils should be taught to: describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals.	Pupils should be taught 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 give reasons for classifying plants and animals based on specific characteristics.
Rocks			Pupils should be taught to: 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			

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	lived are trapped within rock recognise that soils are made from rocks and organic matter.		
Light	Pupils should be taught to: 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 solid opaque object find patterns in the way that the size of shadows change.		Pupils should be taught to: 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 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 and magnets	Pupils should be taught to:	Pupils should be taught to: 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	

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	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.		levers, pulleys and gears, allow a smaller force to have a greater effect.	
States of matter	are racing.	Pupils should be taught to: 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.		
Sound		Pupils should be taught to: 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		

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Electricity		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. Pupils should be taught to:	Pupils should be taught to:
		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 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.	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.
Earth and space		of the Ea	te taught to: he movement th, and other elative to the

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			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.	
Evolution and inheritance				Pupils should be taught to: 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.

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