



				Forest Park Pr	ogression map - Scienc	e		
	N	R	Y1	Y2	Y3	Y4	Y5	Y6
Autumn 1			Animals including humans	Plants	Plants	Living things and their habitats	Living things and their habitats	Living things and their habitats
Autumn 2			Animals including humans	Animals including humans	Animals including humans	Animals including humans	Forces	Living things and their habitats
Spring 1			Materials	Everyday materials	Forces and magnets	States of matter	Space	Animals including humans
Spring 2			Materials	Revision unit Quiz of units so far, including Y1 seasons	Revision unit Quiz of units so far	Revision unit Quiz of units so far Finish environmental impacts from Aut 1 Revisit Y3 light Revisit Y3 rocks	Revision unit Quiz of units so far Revisit Y4 sound Revisit Y4 electricity	Evolution and inheritance
Summer 1			Revision	Living things and their habitats	Rocks and soil	Electricity	Animals including humans	Electricity
Summer 2			Plants	Living things and their habitats	Light	Sound	Changes of materials	Light
				Worki	ing scientifically			
Working Scientifically			 I can ask simple scientific questions. I can make observations. I can follow steps for a simple test. I can identify and compare things. I can suggest what I have found out. 	I can ask simple scientific questions and recognise that they can be answered in different ways. I can use simple equipment to make observations. I can carry out simple tests.	I can ask relevant scientific questions. I can suggest ways to explore a scientific question. I can make a prediction. I can set up a test to compare two things. I can set up a fair test.	I can ask relevant scientific questions. I can plan a simple enquiry to explore a scientific question. I can make a prediction with a reason. I can set up a test to compare more than two things.	I can plan different types of scientific enquiry. I am aware of variables to control in an enquiry. I can make a prediction with a reason, using previous scientific knowledge. I can measure using a range of equipment.	I can choose which type of scientific enquiry to use. I can control variables in an enquiry. I can use test results to make predictions and set up a further test. I can measure carefully using a range of
			• I can use my observations to answer questions.	 I can identify and classify things. I can gather and record data. I can suggest what I have found out. I can use simple data to answer questions. 	I can make careful and accurate observations. I can use different equipment to make measurements. I can use diagrams to show what I have done. I can record data in tables.	I can set up a fair test and explain why it is fair. I can make careful and accurate observations, including the use of standard units. I can use different equipment (including	 I can measure accurately and precisely. I can draw scientific diagrams and labels, and tables. I can present data in scatter graphs, bar and line graphs. 	equipment and choose which equipment to use. • I can measure accurately and precisely, taking repeat readings when appropriate. • I can draw scientific diagrams and labels,





					I can use observations and knowledge to answer scientific questions. I can report my findings verbally. I can report my findings in writing. I can draw conclusions from my results.	data loggers) to make measurements. I can use scientific diagrams and classification keys. I can use tables and bar charts to present my data. I can use observations and my knowledge to answer scientific questions and generate further questions. I can report my findings in different ways, including oral presentations and written explanations. I can draw conclusions from my results and suggest improvements.	I can report findings from enquiries in a range of ways. I can explain a conclusion from an enquiry. I can describe causal relationships in an enquiry. I can read, spell and pronounce scientific vocabulary accurately.	classification keys and tables. I can present data using a range of graphs. I can choose how to report my findings most effectively. I can explain a conclusion from an enquiry, drawing on my prior knowledge. I can state whether evidence supports or refutes an argument or theory. I can discuss the reliability of my results. I can use scientific vocabulary
					nowledge			
Biology	N	R	Y1	Y2	Y3	Y4	Y5	Y6
Animals including humans	Observe animals closely through a variety of means e.g. magnifiers & photographs Talk about things they have seen outside including animals	Describe what they see, hear, smell & feel (senses) Name and describe some animals Understand the key features of the life cycle of	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	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	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





	Identify familiar animals	several living things e.g. plants, caterpillar, human.	variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)	right amounts of different types of food, and hygiene.			water are transported within animals, including humans.
		Be able to show care and concern for living things • Encourage children to observe how animals behave differently as the seasons change	identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.				
Plants	Plant seeds and care for growing plants (concept of growth and decay) Draw pictures of plants Observe plants closely through a variety of means e.g. magnifiers & photographs	Describe what they see, hear & feel whilst outside (senses) Understand the key features of the life cycle of a plant Name & describe some plants	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	observe and describe how seeds and bulbs grow into mature plants find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	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		





		Understand the effect of changing seasons on the natural world around them (weather and seasonal features)		explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.			
things and their habitats	Begin to understand the need to respect & care for the natural environment & all living things Talk about what they see, using a wide vocabulary Understand the key features of the life cycle of a butterfly Observe some of the differences within seasons	Describe what they see, hear, smell & feel whilst outside – focused observation of the natural world Discuss how we care for the natural world around us. After close observation , draw pictures of the natural world, including animals and plants.	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 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		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.	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.	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.





		Know some of the key changes that signify a season.		of a simple food chain, and identify and name different sources of food.				
Evolution								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.
Physics			Y1	Y2	Y3	Y4	Y5	Y6
Materials	Use all their senses in hands-on exploration of natural materials Explore collections of	Observe & interact with natural processes, such as ice melting, a sound causing a	distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including	identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for different uses				





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	materials with	vibration,	wood, plastic, glass,	compare how things		
	similar and/or	light	metal, water, and rock	move on different		
	different	travelling		surfaces.		
	properties	through	describe the simple			
		transparent	physical properties of	find out how the		
	Talk about	material,	a variety of everyday	shapes of solid objects		
	what they	an object	materials	made from some		
	see, using a	casting a		materials can be		
	wide	shadow, a	compare and group	changed by squashing,		
	vocabulary	magnet	together a variety of	bending, twisting and		
		attracting	everyday materials on	stretching		
	Explore how	an object &	the basis of their			
	things work	a boat	simple physical			
	e.g. wheels,	floating on	properties			
	water walls,	water.				
	cogs, pegs &					
	boards	Begin to				
		link cause				
	Explore	and effect				
	collections of	using				
	materials with	relevant				
	similar and/	vocabulary				
	or different	and ask				
	properties	questions				
	• •	about				
		variables				
		within				
		these				
		processes				
		e.g. how				
		could we				
		stop the ice				
		from				
		melting?				
		Model the				
		vocabulary				
		needed to				
		name				
		specific				
		Specific				1





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	features of					
	the natural					
	world, both					
	natural &					
	man-made.					
	man made.					
Seasonal		observe changes				
change		across the 4 seasons				
J						
		observe and describe				
		weather associated				
		with the seasons and				
		how day length varies.				
Light				recognise that they need		recognise that light
				light in order to see		appears to travel in
				things and that dark is		straight lines
				the absence of light		
				· ·		use the idea that light
				and a short link in		travels in straight lines
				notice that light is		to explain that objects
				reflected from surfaces		
						are seen because they
				recognise that light from		give out or reflect light
				the sun can be		into the eye
				dangerous and that there		
				are ways to protect their		explain that we see
						things because light
				eyes		travels from light
						sources to our eyes or
				recognise that shadows		from light sources to
				are formed when the		objects and then to our
				light from a light source		eyes
				is blocked by a solid		eyes
				object		
				Object		use the idea that light
						travels in straight lines
				find patterns in the way		to explain why shadows
				that the size of shadows		have the same shape as
				change.		the objects that cast
				3-1		them





Forces and magnets	Explore & talk about		compare how things move on different		explain that unsupported objects fall towards the	
magnets	different		surfaces		Earth because of the force	
	forces they		notice that some forces		of gravity acting between	
	can feel e.g.		need contact between 2		the Earth and the falling	
	stretch, snap,		objects, but magnetic		object	
	rigid,		forces can act at a			
	magnetic		distance		identify the effects of air	
	repulsion,		distance		resistance, water	
	water pushing		observe how magnets		resistance and friction,	
	up when		attract or repel each		that act between moving	
	pushing a		other and attract some		surfaces	
	boat under it		materials and not others			
					recognise that some	
			compare and group		mechanisms including	
			together a variety of		levers, pulleys and gears allow a smaller force to	
			everyday materials on		have a greater effect	
			the basis of whether they		nave a greater effect	
			are attracted to a			
			magnet, and identify			
			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.			
				id-wife		and state that be state t
Electricity				identify common		associate the brightness
				appliances that run on		of a lamp or the volume
				electricity		of a buzzer with the
				construct a simula contra		number and voltage of
				construct a simple series		cells used in the circuit
				electrical circuit,		
				identifying and naming		compare and give
				its basic parts, including		reasons for variations in





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			cells, wires, bulbs,		how components
			switches and buzzers		function, including the
					brightness of bulbs, the
			identify whether or not a		loudness of buzzers and
			lamp will light in a simple		the on/off position of
			series circuit, based on		switches
			whether or not the lamp		
			is part of a complete		use recognised symbols
			loop with a battery		when representing a
					simple circuit in a
			recognise that a switch		diagram.
			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.		
Earth and				describe the movement of	
space				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	
				use the idea of the Earth's	
				rotation to explain day	
				and night, and the	





					apparent movement of	
		1.00	140		the sun across the sky.	
Chemistry	Y1	Y2	Y3	Y4	Y5	Y6
Rocks			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.			
Sound				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 from the sound source increases		
States of matter	Characteristic s of liquids & solids e.g. cooking eggs, melting chocolate, putting salt onto ice cubes			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.		
Properties and changes of materials					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	





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		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
		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.