





Science curriculum map

Year Groups	Autumn Term		Spring Term		Summer Term	
Foundation	What makes us the same/ different? How do we grow?	What did dinosaurs eat? What is a herbivore/ carnivore?	What makes an object float? What makes some things sink?	How do plants grow? What are the parts of a plant?	What is a minibeast? How do minibeasts grow? How many minibeasts can we name?	What are animal families? What is a mammal/ What is a reptile?
Year One	 Which materials are the best to use when building a house for the 3 little pigs? (Let's build) Everyday Materials: distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock describe the simple physical properties of a variety of everyday materials compare and group together a variety of 	What can my body do? (Ourselves) Animals including humans: identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Is water marvellous? (Marvellous materials) Everyday Materials: distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials on the basis of their simple	How are animals similar? How are they different? Wood Green visiting – caring for Hammy the Hamster Animals including humans Aidentify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Aidentify and name a variety of common animals that are carnivores, herbivores and omnivores Automatic describe and compare	What's growing in our gardens? Plants Aidentify and name a variety of common wild and garden plants, including deciduous and evergreen trees Aidentify and describe the basic structure of a variety of common flowering plants, including trees.	How does the weather change? (Wonderful weather) Link with geography unit Seasonal Changes • observe changes across the four seasons • observe and describe weather associated with the seasons and how day length varies.

	everyday materials on		physical properties.	the structure of a variety		
	the basis of their simple			of common animals (fish,		
	physical properties.			amphibians, reptiles,		
				birds and mammals,		
				including pets)		
				lidentify, name, draw		
				and label the basic parts		
				of the human body and		
				say which part of the		
				body is associated with		
				each sense.		
	Scientific skills					
		and recognising that they ca	in be answered in different v	vays		
	observing closely, using					
	performing simple tests					
	identifying and classifying	ng				
	using their observations	and ideas to suggest answe	ers to questions			
	.	g data to help in answering q				
	Year 1 Whole Investigatio	n Process and write up mak		1	1	1
fear Two	What lives here?	Can any material do any	Do all materials squash,	Can I grow a plant?	What makes a good	How does a baby anim
	(Habitats)	job?	bend, twist and stretch?	(Ready, Steady, Grow)	habitat?	grow into a healthy
			(Squash, bend, twist,		(Gardens and	adult?
	Living things and their	Uses of everyday	stretch)	Plants	allotments)	(Healthy animals)
	Habitats	materials		observe and describe		
	explore and compare	identify and compare	Uses of everyday	how seeds and bulbs	Living things and their	Animals including
	the differences between	the suitability of a	materials	grow into mature plants	Habitats	humans
	things that are living,	variety of everyday	find out how the	find out and describe	explore and compare	 notice that animals,
	dead, and things that	materials, including	shapes of solid objects	how plants need water,	the differences between	including humans, hav
	have never been alive	wood, metal, plastic,	made from some	light and a suitable	things that are living,	offspring which grow
	identify that most	glass, brick, rock, paper	materials can be	temperature to grow	dead, and things that	into adults
	living things live in	and cardboard for	changed by squashing,	and stay healthy.	have never been alive	find out about and
			honding twicting and		identify that most	describe the basic nee
	habitats to which they are suited and describe	particular uses	bending, twisting and stretching.		living things live in	of animals, including

	how different habitats				habitats to which they	humans, for survival
	provide for the basic				are suited and describe	(water, food and air)
	needs of different kinds				how different habitats	describe the
	of animals and plants,				provide for the basic	importance for humans
	and how they depend on				needs of different kinds	of exercise, eating the
	each other				of animals and plants,	right amounts of
	identify and name a				and how they depend on	different types of food,
	variety of plants and				each other	and hygiene.
	animals in their habitats,				identify and name a	
	including microhabitats				variety of plants and	Eggs
	describe how animals				animals in their habitats,	
	obtain their food from				including microhabitats	
	plants and other				describe how animals	
	animals, using the idea				obtain their food from	
	of a simple food chain,				plants and other	
	and identify and name				animals, using the idea	
	different sources of				of a simple food chain,	
	food.				and identify and name	
					different sources of	
					food.	
	Scientific skills					
	asking simple questions	and recognising that they ca	n be answered in different	t ways		
	observing closely, using	simple equipment				
	performing simple tests					
	identifying and classifyir	Ig				
	using their observations	and ideas to suggest answe	rs to questions			
	& gathering and recording	data to help in answering q	uestions			
	Spring 2-Year 2 Whole Inv	estigation Process and write	e up making a scrapbook			
	How do I keep my body	Are all rocks the same?	Are all materials	What can light do?	What does a plant need	Why are there different
Year Three			magnetic (including	(Light and shadows)	to live?	parts of a flowering
Year Three	healthy?	(Rocks and fossils)	• • •	(Light and Shadows)		
Year Three	healthy? (Keeping healthy)	(Rocks and fossils)	other magnets)?		(Roots and shoots)	plant?
Year Three	-	(Rocks and fossils) Rocks	• • •	Light 4 recognise that they		

Humans	together different kinds	Forces and Magnets	need light in order to see	identify and describe	
identify that animals,	of rocks on the basis of	compare how things	things and that dark is	the functions of different	Plants
including humans, need	their appearance and	move on different	the absence of light	parts of flowering plants:	identify and describe
the right types and	simple physical	surfaces	notice that light is	roots, stem/trunk, leaves	the functions of differe
amount of nutrition, and	properties	notice that some	reflected from surfaces	and flowers 🐥 explore	parts of flowering plan
that they cannot make	describe in simple	forces need contact	recognise that light	the requirements of	roots, stem/trunk, leav
their own food; they get	terms how fossils are	between two objects,	from the sun can be	plants for life and	and flowers & explore
nutrition from what they	formed when things that	but magnetic forces can	dangerous and that	growth (air, light, water,	the requirements of
eat	have lived are trapped	act at a distance	there are ways to	nutrients from soil, and	plants for life and
identify that humans	within rock	observe how magnets	protect their eyes	room to grow) and how	growth (air, light, wate
and some other animals	recognise that soils	attract or repel each	recognise that	they vary from plant to	nutrients from soil, an
have skeletons and	are made from rocks and	other and attract some	shadows are formed	plant	room to grow) and ho
muscles for support,	organic matter.	materials and not others	when the light from a	investigate the way in	they vary from plant t
protection and		compare and group	light source is blocked by	which water is	plant
movement.		together a variety of	an opaque object	transported within	investigate the way
		everyday materials on	find patterns in the	plants	which water is
		the basis of whether	way that the size of	explore the part that	transported within
		they are attracted to a	shadows change.	flowers play in the life	plants
		magnet, and identify		cycle of flowering plants,	explore the part that
		some magnetic materials		including pollination,	flowers play in the life
		describe magnets as		seed formation and seed	cycle of flowering plan
		having two poles		dispersal.	including pollination,
		predict whether two			seed formation and se
		magnets will attract or			dispersal.
		repel each other,			
		depending on which			
		poles are facing.			
Scientific skills					
asking relevant question	ns and using different types of	of scientific enquiries to ansy	wer them		
setting up simple praction	cal enquiries, comparative a	nd fair tests			
making systematic and	careful observations and, wh	ere appropriate, taking accu	arate measurements using st	andard units, using a range	of equipment, includin
thermometers and data lo	ggers				
gathering, recording, cla	ssifying and presenting data	in a variety of ways to help	in answering questions		

		simple scientific language, d		, keys, bar charts, and tables isplays or presentations of re		
			•	est improvements and raise		
	_	similarities or changes relate		-	Turther questions	
		cientific evidence to answer c		•		
	0 0	n Process and write up maki		inidings.		
Year Four	How can I light up a	What is sound and how	How are living things	How does water exist in	Do habitats change?	What happens to the
	bulb?	does it travel?	classified?	all 3 states of matter?	How can we help them?	food I have eaten and
	(It's electric)	(Listen up)	(Name that living thing)	(States of matter	(Help our habitats)	how do my teeth help
		· · · ·		scientists)		(Are these your teeth?)
	Electricity	Sound	Living things and their		Living things and their	
	identify common	identify how sounds	Habitats	States of Matter	Habitats	Animals including
	appliances that run on	are made, associating	recognise that living	compare and group	recognise that	Humans
	electricity	some of them with	things can be grouped in	materials together,	environments can	describe the simple
	construct a simple	something vibrating 🌲	a variety of ways	according to whether	change and that this can	functions of the basic
	series electrical circuit,	recognise that vibrations	explore and use	they are solids, liquids or	sometimes pose dangers	parts of the digestive
	identifying and naming	from sounds travel	classification keys to	gases	to living things	system in humans
	its basic parts, including	through a medium to the	help group, identify and	observe that some		identify the different
	cells, wires, bulbs,	ear	name a variety of living	materials change state		types of teeth in huma
	switches and buzzers	find patterns between	things in their local and	when they are heated or		and their simple
	identify whether or	the pitch of a sound and	wider environment	cooled, and measure or		functions
	not a lamp will light in a	features of the object		research the		construct and
	simple series circuit,	that produced it		temperature at which		interpret a variety of
	based on whether or not	find patterns between		this happens in degrees		food chains, identifyin
	the lamp is part of a	the volume of a sound		Celsius (°C)		producers, predators
	complete loop with a	and the strength of the		 identify the part 		and prey.
	battery	vibrations that produced		played by evaporation		
	recognise that a	it		and condensation in the		
	switch opens and closes	recognise that sounds		water cycle and		
	a circuit and associate	get fainter as the		associate the rate of		
	this with whether or not	distance from the sound		evaporation with		
	a lamp lights in a simple	source increases.		temperature.		
	series circuit 🐥 recognise	<u> </u>	<u> </u>		'	

	some common					
	conductors and					
	insulators, and associate					
	metals with being good					
	conductors.					
	Scientific skills					
	asking relevant question	is and using different types of	of scientific enquiries to ans	wer them		
	setting up simple practic	al enquiries, comparative a	nd fair tests			
	making systematic and c	areful observations and, wh	nere appropriate, taking accu	urate measurements using s	tandard units, using a range	of equipment, including
	thermometers and data lo			-		
	 gathering, recording, cla 	ssifying and presenting data	a in a variety of ways to help	in answering questions		
	recording findings using	simple scientific language, o	drawings, labelled diagrams,	keys, bar charts, and tables		
			and written explanations, di			
			ictions for new values, sugg			
	=		d to simple scientific ideas a		·	
		_	questions or to support thei	-		
		n Process and write up mak		5		
Year Five	Do all animals have	How and why do the	How useful are forces?	How do we choose the	Are all changes to	How does a foetus
	young in the same way?	spherical bodies move	(May the forces be with	materials needed for	materials reversible?	grow?
	(The art of living)	in our solar system?	you)	special jobs?	(Changing materials)	(Life explorers)
		(Space presenters)		(Music festival		
	Living things and their		Forces	materials)	Properties and changes	Animals including
	habitats	Earth and Space	explain that		of Materials	humans
	describe the	describe the	unsupported objects fall	Properties and changes	compare and group	describe the change
	differences in the life	movement of the Earth,	towards the Earth	of Materials	together everyday	as humans develop to
	cycles of a mammal, an	and other planets,	because of the force of	compare and group	materials on the basis of	old age.
	amphibian, an insect and	relative to the Sun in the	gravity acting between	together everyday	their properties,	
	a bird	solar system	the Earth and the falling	materials on the basis of	including their hardness,	
	describe the life	describe the	object	their properties,	solubility, transparency,	
	process of reproduction	movement of the Moon	identify the effects of	including their hardness,	conductivity (electrical	
	in some plants and	relative to the Earth	air resistance, water	solubility, transparency,	and thermal), and	
	animals	describe the Sun,	resistance and friction,	conductivity (electrical	response to magnets	
		Earth and Moon as	that act between moving	and thermal), and	know that some	1

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approximately spherical	surfaces	response to magnets	materials will dissolve in	
bodies	recognise that some	know that some	liquid to form a solution,	
use the idea of the	mechanisms, including	materials will dissolve in	and describe how to	
Earth's rotation to	levers, pulleys and gears,	liquid to form a solution,	recover a substance	
explain day and night	allow a smaller force to	and describe how to	from a solution	
and the apparent	have a greater effect.	recover a substance	use knowledge of	
movement of the sun		from a solution	solids, liquids and gases	
across the sky.		use knowledge of	to decide how mixtures	
		solids, liquids and gases	might be separated,	
		to decide how mixtures	including through	
		might be separated,	filtering, sieving and	
		including through	evaporating	
		filtering, sieving and	give reasons, based on	
		evaporating	evidence from	
		give reasons, based on	comparative and fair	
		evidence from	tests, for the particular	
		comparative and fair	uses of everyday	
		tests, for the particular	materials, including	
		uses of everyday	metals, wood and plastic	
		materials, including	demonstrate that	
		metals, wood and plastic	dissolving, mixing and	
		demonstrate that	changes of state are	
		dissolving, mixing and	reversible changes	
		changes of state are	explain that some	
		reversible changes	changes result in the	
		explain that some	formation of new	
		changes result in the	materials, and that this	
		formation of new	kind of change is not	
		materials, and that this	usually reversible,	
		kind of change is not	including changes	
		usually reversible,	associated with burning	
		including changes	and the action of acid on	
		associated with burning	bicarbonate of soda.	

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				and the action of acid on		
				bicarbonate of soda.		
	Scientific skills					
		•		cognising and controlling var		
	-				epeat readings when approp	
					ables, scatter graphs, bar and	d line graphs
	using test results to make	e predictions to set up furth	er comparative and fair test	ts		
	reporting and presenting	g findings from enquiries, ind	cluding conclusions, causal r	elationships and explanation	ns of and degree of trust in r	esults, in oral and writte
	forms such as displays and	other presentations				
	identifying scientific evid	lence that has been used to	support or refute ideas or a	irguments		
	Year 5 Whole Investigation	n Process and write up mak	ing a scrapbook			
Year Six	How does the way light	What is evolution &	How can circuits be	What does my blood	How and why do we	Introduction to
	travels, help us see?	how does it help	changed?	do?	classify living things?	Secondary Science
	(crime lab investigation)	survival?	(Electric celebrations)	(The art of being human)	(classification	Units written by Ali
		(The game of survival)			connoisseurs)	Hodgson from CamVC
	Light		Electricity	Animals including		concentrating on Scie
	recognise that light	Evolution and	associate the	Humans	Living things and their	skills ready for second
	appears to travel in	Inheritance	brightness of a lamp or	identify and name the	Habitats	school.
	straight lines	recognise that living	the volume of a buzzer	main parts of the human	describe how living	
	🜲 use the idea that light	things have changed	with the number and	circulatory system, and	things are classified into	
	travels in straight lines to	over time and that fossils	voltage of cells used in	describe the functions of	broad groups according	
	explain that objects are	provide information	the circuit 🐥 compare	the heart, blood vessels	to common observable	
	seen because they give	about living things that	and give reasons for	and blood	characteristics and based	
	out or reflect light into	inhabited the Earth	variations in how	recognise the impact	on similarities and	
	the eye	millions of years ago	components function,	of diet, exercise, drugs	differences, including	
	explain that we see	recognise that living	including the brightness	and lifestyle on the way	microorganisms, plants	
	things because light	things produce offspring	of bulbs, the loudness of	their bodies function	and animals 🐥 give	
	travels from light	of the same kind, but	buzzers and the on/off	describe the ways in	reasons for classifying	
	sources to our eyes or	normally offspring vary	position of switches	which nutrients and	plants and animals based	
	from light sources to	and are not identical to	use recognised	water are transported	on specific	
	objects and then to our	their parents	symbols when	within animals, including	characteristics	
	eyes	identify how animals	representing a simple	humans.		
	use the idea that light	and plants are adapted	circuit in a diagram.			

have the same shape as the objects that cast them. that adaptation may lead to evolution. that adaptation may lead to evolution. *planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary * 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 graph * 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 degree of trust in results, in ora forms such as displays and other presentations
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A identifying scientific evidence that has been used to support or refute ideas or arguments
Year 6 Whole Investigation Process and write up making a scrapbook