Year group	Plants and Animals including humans	Evolution and Inheritance	Living things and their habitats	Earth and space/Seasons	Light and Sound	Forces and Magnets	Electricity	Properties and changes of materials	Working Scientifically
1 NB Y1 objectives are taught in cross curricular units -	Animals incl humans To identify, name, draw and label the basic parts of the human body. Name the basic parts of animals other than humans and explain that some animal parts have a different name from the equivalent human part. Name the five senses and Explain which part of my body is associated with each sense.			Seasonal Changes (cross curric w Geog) To describe changes across the four seasons. To order the 4 seasons. To observe weather across the 4 seasons and know what weather is associated with a season. To understand that day length varies in the different seasons.				(cross curric w Geography) To suggest how to test whether materials are waterproof and to perform a simple test to find a suitable material for Barnaby's umbrella. (cross curric w history) To describe and compare the simple physical properties of a variety of everyday materials.	key Stage 1 asking simple questions and recognising that they can be answered in different ways observing closely, using simple equipment performing simple tests identifying and classifying

To gather and record data to answer the question of eye colour in our class. To identify and name common pets and understand what pets need to be happy, safe &		To go on a classroom toy hunt to find a variety of everyday materials on the basis of their simple physical properties.	gathering and recording data to help in answering
healthy. To define the words carnivore, herbivore and omnivore and group animals by what they eat. Identify and name a variety of common			questions
animals including, fish, amphibians, reptiles, birds and mammals. Sort animals into the five groups: fish, amphibians, reptiles, birds			

	Plants					
	To understand					
	the difference					
	between					
	deciduous and					
	evergreen.					
	To go on a leaf					
	walk and					
	identify leaves					
	from evergreen					
	and deciduous					
	trees.					
	To identify and					
	describe the					
	basic structure					
	of a variety of					
	common					
	flowering plants,					
	including trees.					
2	Plants	Identify things			Identify and	
	Look at plants in	that are living,			compare the	
	the environment	dead or never			suitability of	
	Observe and	alive			a variety of	
	describe how	Identify and			everyday	
	seeds and bulbs	name plants			materials,	
	grow into	and animals			including	
	mature plants	living in local habitats			wood, metal,	
	by planting seeds and bulbs.				plastic, glass,	
	seeus and buibs.	Identify mini beasts living in			brick, rock, paper and	
		microhabitats			cardboard	
		micronabitats			caraboara	

Understand the	Identify that	Identify and
life cycle of	most living	classify the
plants.	things live in	uses of
pianis.	habitats to	everyday
Find out and	which they are	materials in
describe how	suited	the context
plants need	Describe how	of the local
water, light and	different	area.
a suitable	habitats	di ed.
temperature to	provide for the	Identify and
grow and stay	basic needs of	compare the
healthy	different kinds	suitability of
nearmy	of animals and	a variety of
Compare the	plants	everyday
growth of	Identify	materials,
seedlings under	adaptations of	including
different	animals, and	wood, metal,
conditions.	how living	plastic, glass,
conditions.	things in a	brick, rock,
Explain what	habitat depend	paper and
conditions	on each other.	cardboard
plants need to	Describe how	for
grow well.	animals obtain	particular
grow wen.	their food	uses by
Compare the	from plants	exploring the
growth of seeds	and other	purposes of
and bulbs.	animals	different
and bailbo.	Identify and	objects.
Humans	name different	objects.
Notice that	sources of	Find out how
animals including	food by making	the shapes
humans have	a variety of	of solid
offspring that	food chains	objects made
grow into adults	7.000 07101110	from some
and match		materials can
adults to their		be changed
babies		by squashing,

Learn h			 handina
			bending,
humans			twisting and
and cha	inge		stretching by
			changing the
Find ou			shape of
and des			objects.
	sic needs		
of anim			Explore
includin			materials in
humans			context of
	l (water,		recycling.
	ıd air), by		
identify	ying the		Find out
ways th	nat		about people
differe	nt		who have
animals	meet		developed
their be	asic		useful new
needs.			materials by
			learning
Describ	pe the		about John
importo	ance for		McAdam
humans			
	the right		
amount			
	nt types		
of food			
explori			
groups.	_		
gi oups.			
Describ	ne why		
exercis			
importo			
looking	need to		
exercis	e.		

Describe importance humans of hygiene, be learning a good hygic habits.	e for Y pout			
To know thumans and other animals and their own To know the tanimals, including humans, nother right amounts and types of form. To be able report on findings for enquiries. To understand exploration animal dieserges the definitions are supported to the definitions.	soils hat d Compare hals different ke kinds of rocks food. based on their hat appearance in the context of eed understanding the nd difference between natural and human-made rocks. rom Making systematic tand and careful observations ts. by examining different tand types of tions rocks.	To recognise that some forces need light in order to see things and that dark is the absence of light different types of To notice that light is reflected from To compare surfaces how things move on different surfaces investigate which To notice surfaces that reflect magnetic light. To notice that light is reflected from act at a distance an attract som materials	ng R	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
carnivore		from and not surfaces others by		equipment, including

herbivore and	Group		sorting	thermometers
omnivore.	together	To use a	materials.	and data
	different	mirror to		loggers
To know that	kinds of rocks	reflect lig	ht To compare	gathering,
humans and	on the basis	and explain	n and group	recording,
some animals	oftheir simple	how mirror	rs materials	classifying and
have skeletons	physical	work.	according to	presenting data
and muscles for	properties.		whether	in a variety of
support,		То	they are	ways to help in
protection and	Describe in simple	recognise	magnetic.	answering
movement.	terms how fossils	that		questions
	are formed when	shadows a	re To observe	1
	things that have	formed	how magnets	
To group animals	lived are trapped	when the	attract or	recording
with and without	within rock.	light from	a repel each	findings using
skeletons.		light source	ce other and	simple
	Explain the	is blocked	attract some	scientific
Know that an	fossilisation	by a solid	materials	language,
animal without a	process by	object	and not	drawings,
skeleton is an	comparing fossils		others .	labelled
invertebrate.	to the animals	То		diagrams, keys,
	they belong to.	investigate	2	bar charts, and
		which	To describe	tables
To understand	Recognise that	materials	magnets as	
that the human	soils are made	block light		reporting on
skeleton is	from rocks and	to form	poles and to	findings from
jointed to allow	organic matter by	shadows.	predict	enquiries,
movement.	explaining how		whether two	including oral
	soil is formed.		magnets will	and written
		To find	attract or	explanations,
	Investigate the	patterns ii	n repel each	displays or
Plants	permeability of	the way	other,	presentations
	different soils.	that the	depending on	of results and
To identify and		size of	which poles	conclusions
describe the		shadows	are facing .	using results to
functions of		change.		draw simple
different parts				ar aw simple

	of flowering plants. To explore the requirements of plants for life and growth. To investigate the ways in				conclusions, make predictions for new values, suggest improvements and raise further questions
	which water is transported in plants. To explore the part that flowers play in the life cycle of				identifying differences, similarities or changes related to simple scientific ideas and processes
	flowering plants - fertilisation and pollination. To explore the part that flowers play in the life cycle of flowering plants - seed dispersal.				using straightforward scientific evidence to answer questions or to support their findings.
4	Describe some of the ways food is digested in humans. Know humans have different types of teeth	Know how sounds are made How sound travels through air or water to	List a number of common objects that need electricity to function.	Describe the differences between solids, liquids and gases and use this to group materials.	

	and the job of each tooth type.		reach the ear.		Build a series	Know that	
					circuit,	some	
	Food chains and		Talk about		naming	materials	
	the role of the		the		cells, wires,	change to a	
	producer,		strength of		bulbs,	different	
	predators and		the		switches	state when	
	prey.		vibrations,		and	they are	
			size and		buzzers.	heated and	
	Group living		shape and			cooled.	
	things in		how this can		Discuss		
	different ways		impact the		conductors	Talk about	
			how loud a		and	evaporation	
	Classification		sound can		insulators	and	
	keys and how to		be.		and name	condensation	
	use them to				some.	as parts of	
	identify an		Sound and			the Water	
	animal		insulation			Cycle.	
			experiment.				
	Know an					Know that	
	environment may		Discuss			water	
	change overtime		pitch and			evaporates	
	and the impact		volume.			when the	
	this can have on		Know that			temperature	
	the animals and		sounds get			is higher.	
	plants.		fainter as				
			you move				
			away from the source.				
			The source.				
5	Describe sexual	Earth's		Identify		Compare and	Upper Key
	reproduction in	position in		forces acting		group	Stage 2
	plants	relation to the		on objects		everyday	
		sun and planets				materials on	planning
	Describe			Investigating		the basis of	different types
	asexual	Describe Earth		gravity and		their	of scientific
		moon and sun				properties.	enquiries to

	reproduction in			as spherical		Newton			answer
	plants			bodies		meters		Materials	questions,
								that dissolve	including
	Describe the			Relative sizes		Effects of		into solutions	recognising and
	lifecycle of a			of sun, moon		air			controlling
	bird/ mammal/			and Earth		resistance		Separating	variables where
	insect and							mixtures	necessary
	amphibian			How the		Effects of		through	
				geocentric		water		evaporation	taking
	Compare the life			model gave way		resistance			measurements,
	cycles of			to the		and upthrust		Separating	using a range of
	amphibians			heliocentric				mixtures	scientific
	and insects-					Effects of		through	equipment, with
	including			Use the		friction		sieving	increasing
	metamorphosis-			Earth's		Investigating			accuracy and
	and to			rotation to		mechanisms-		Separating	precision,
	mammals/birds			explain day and		levers, gears		mixtures	taking repeat
				night		and pulleys		through	readings when
	Describe			Investigate				filtering	appropriate
	changes as			sunrise/ sunset					арргоргіато
	humans develop			times				Irreversible	
	to old age-							change-	recording data
	including			Describe the				burning	and results of
	development of			movement of					increasing
	babies, puberty			the moon and				Irreversible	complexity
	and changes in			its phases.				change- acid	using scientific
	old age.							and bicarb of	diagrams and
								soda.	labels,
	Investigate								classification
	gestation								keys, tables,
	periods for								scatter graphs,
	humans and								bar and line
	animals.	T 1	Cl ·····C		1:11		T.L. V.C		graphs
6	Identify and	Investigate what	Classify		Light		Identify		
	name the main	characteristics	vertebrates		travels from		and use		using test
	parts of the	we've inherited			a source		electricity		results to make
	human	from our parents							

circulatory		Classify	Light		symbols in	predictions to
system	Investigate	invertebrates	travels	in	diagrams	set up further
	crossbreeding		straight			comparative and
Describe the	Understand how	Investigate	lines		Investigate	fair tests
functions of the	plants and	microorganisms			the effect	
functions of the heart, blood vessels and blood Describe how nutrients and water are transported in animal and human bodies Exploring how to keep our bodies healthy through diet, exercise and lifestyle Exploring the harmful impact of drugs and		_	How hur see thin because light trofrom lig sources our eyes from lig sources objects then to eyes. How ligh creates shadows that have the sam shape as object	mans ayels ht to s or ht to and our	_	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 identifying scientific evidence that has been used to support or refute ideas or arguments