



Enquiry Skills							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Realise their actions have an effect on the world, so they want to keep repeating them. Plan and think ahead about how they will explore or play with objects. Guide their own thinking and actions. Make independent choices. Bring their own interests and fascinations into early years. Respond to new experiences that you bring to their attention.	Ask simple questions and recognise that they can be answered in different ways Use simple equipment to observe closely Perform simple tests Identify and classify Use his/her observations and ideas to suggest answers to questions Gather and record data to help in answering questions	Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum Use simple equipment to observe closely including changes over time Perform simple comparative tests Identify, group and classify Use his/her observations and ideas to suggest answers to questions noticing	Ask relevant questions and use different types of scientific enquiries to answer them Set up simple practical enquiries, comparative and fair tests Make systematic and careful observations using equipment where appropriate Gather, record, classify and present data in a variety of ways Record findings using simple scientific language presented in different ways	Ask relevant questions and use an understanding of different types of scientific enquiries to best answer them Set up simple practical enquiries, comparative and fair tests Make systematic and careful observations and where appropriate, take accurate measurements using standard units, using a range of equipment including thermometers and data loggers Gather, record, classify and present	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter	Year 6 Plan different types of scientific enquiries to answer their own or others' questions, including recognising and controlling variables where necessary Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Record data and results of increasing complexity using scientific diagrams and labels, classification keys,	
		similarities, differences and	Report on findings	data	graphs, bar and line	tables, scatter	
		patterns	Irom		graphs	graphs, bar and line graphs	





Gather and record data to help in answering questions	enquiries, including oral and written explanations	in a variety of ways to help in answering questions	Use test results to make predictions to set up further	Use test results to make predictions to set up further comparative and
including from secondary sources of	displays or presentations of results and	Record findings using simple scientific	comparative and fair tests Report and present	fair tests Use test results to make predictions
information	conclusions Use results to draw simple	language, drawings, labeled diagrams,	findings from enquiries, including conclusions,	to set up further comparative and fair tests
	conclusions, make predictions for new values, suggest	keys, bar charts, and tables Report on findings from enquiries,	casual relationships and explanations of and degree of	Report and present findings from enquiries, including conclusions,
	improvements and raise further questions	including oral and written explanations	trust in results, in oral and written forms such	casual relationships and explanations of and
	Identify differences, similarities	displays or presentations of results and	as displays and other presentations	degree of trust in results, in oral and written forms
	or changes related to simple scientific ideas and processes	conclusions Use results to draw simple conclusions, make predictions	Identify scientific evidence that has been used to support or	such as displays and other presentations Identify scientific
	Use straightforward scientific	for new values, suggest improvements and	refute ideas or arguments	evidence that has been used to support or refute
	evidence to answer questions or to support	raise further questions Identify		ideas or arguments
	his/her findings	differences, similarities or		





	changes related to
	simple scientific
	ideas and
	processes
	Use
	straightforward
	scientific evidence
	to answer
	questions or to
	support
	his/her findings

Animals							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Understand the key	-identify and name	-notice that	- identify that	-describe the	-describe the	-describe how	
features of the life	a variety	animals,	animals, including	simple functions of	differences in the	living things are	
cycle of a plant and	of common animals	including humans,	humans, need the	the basic parts of	life cycles of a	classified into	
an animal	including	have	right types and	the digestive	mammal, an	broad groups	
	fish, amphibians,	offspring which	amount of	system in humans	amphibian, an	according to	
	reptiles,	grow into	nutrition, and that	-identify the	insect and a bird	common	
Recognise some	birds and mammals	adults	they	different types of	-describe the life	observable	
environments that	-identify and name	-find out about and	cannot make their	teeth in humans	process of	characteristics and	
are different to the	animals that are	describe	own food; they get	and	reproduction in	- give reasons for	
one in which they	carnivores,	the basic needs of	nutrition from	their simple	some plants and	classifying plants	
live	herbivores and	animals,	what they eat	functions	animals.	and animals	
	omnivores	including humans,	- identify that	-construct and	Animals, including	based on specific	
	-describe and	for survival	humans and some	interpret a variety	humans	characteristics.	
	compare the	(water, food and	other animals have	of food chains,		Animals including	
		air)				humans	





structure of a variety of common animals -identify, name, draw and label the basic parts of the human body and say whice part of the body is associated with each sense.	humans of exercise, eating the right amounts of different types of food, and hygiene.	skeletons and muscles for support, protection and movement	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
					way their bodies function





Knowledge							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	<u>Plants</u>	<u>Plants</u>	<u>Rocks</u>	States of matter	<u>Properties and</u>	<u>Light</u>	
Explore the natural	-identify and name	-observe and	- compare and	-compare and	changes of	- recognise that	
world around	a variety of	describe how seeds	group together	group materials	<u>materials</u>	light appears to	
them.	common wild and	and bulbs grow	different kinds of	together, according	-compare and	travel in	
	garden	into mature plants	rocks on the basis	to whether they	group together	straight lines	
Describe what	plants, including	-find out and	of their appearance	are solids, liquids	everyday materials	- use the idea that	
they see, hear and	deciduous and	describe how	and simple	or gases	on the basis of	light travels in	
feel whilst outside	evergreen trees	plants need water,	physical properties	-observe that some	their properties,	straight lines	
	-identify and	light and a	- describe in simple	materials change	including their	to explain that	
Understand the	describe the basic	suitable	terms how fossils	state when they	hardness,	objects are seen	
effect of changing	structure of a	temperature to	are formed when	are heated or	solubility,	because they	
seasons on the	variety of	grow	things that have	cooled, and	transparency,	give out or reflect	
natural world	common flowering	and stay healthy.	lived are trapped	measure or	conductivity	light into the eye	
around them.	plants,		within rock	research the	(electrical and	- explain that we	
	including trees	<u>Uses of everyday</u>	- recognise that	temperature at	thermal), and	see things because	
		materials -identify	soils are made from	which this happens	response to	light	
	Everyday Materials	and compare the	rocks and	in degrees Celsius	magnets	travels from light	
<u>Materials</u>	-distinguish	suitability of a	organic matter.	(°C)	-know that some	sources to our eyes	
	between an object	variety of everyday	<u>Light</u>	-identify the part	materials will	or from	
Talk about the	and the material	materials, including	- recognise that	played by	dissolve in liquid	light sources to	
differences	from which it	wood, metal,	they need light in	evaporation and	to form a solution,	objects and then to	
between materials	is made	plastic, glass, brick,	order to see things	condensation in the	and describe how	our eyes	
and changes they	-identify and name	rock, paper and	and that dark is the	water cycle and	to recover	- use the idea that	
notice.	a variety of	cardboard for	absence of light	associate the	a substance from a	light travels in	
	everyday materials,	particular uses -	- notice that light is	rate of evaporation	solution	straight lines	
	including	find out how the	reflected from	with temperature.	-use knowledge of	to explain why	
	wood, plastic, glass,	shapes of solid	surfaces	Sound	solids, liquids and	shadows have the	
<u>Forces</u>	metal,	objects made from	- recognise that	-identify how	gases to	same	
Explore and talk	water, and rock	some materials can	light from the sun	sounds are made,	decide how	shape as the	
about different	-describe the	be changed by	can be dangerous	associating some of	mixtures might be	objects that cast	
	simple physical	squashing,				them.	





forces they can	properties of a	bending, twisting	and that there are	them with	separated,	<u>Electricity</u>
feel.	variety of	and stretching.	ways to protect	something	including	- associate the
	everyday materials		their eyes	vibrating	through filtering,	brightness of a
	-compare and		- recognise that	-recognise that	sieving and	lamp or the
	group together		shadows are	vibrations from	evaporating	volume of a buzzer
	a variety of		formed when the	sounds travel	-give reasons,	with the number
	everyday materials		light	through a medium	based on evidence	and
	on the basis of		from a light source	to the ear	from comparative	voltage of cells
	their simple		is blocked by an	-find patterns	and fair tests, for	used in the circuit
	physical properties.		opaque object	between the pitch	the particular uses	- compare and give
	Seasonal Change		- find patterns in	of a sound and	of everyday	reasons for
	-observe changes		the way that the	features of the	materials, including	variations in
	across the		size of shadows	object that	metals, wood and	how components
	four seasons		change.	produced it	plastic	function, including
	-observe and		<u>Forces and</u>	-find patterns	-demonstrate that	the
	describe weather		<u>magnets</u>	between the	dissolving, mixing	brightness of bulbs,
	associated with the		- compare how	volume of a sound	and	the loudness of
	seasons		things move on	and the strength of	changes of state	buzzers
	and how day leng		different surfaces	the vibrations that	are reversible	and the on/off
			- notice that some	produced	changes	position of
			forces need contact	it	-explain that some	switches
			between two	-recognise that	changes result in	- use recognised
			objects, but	sounds get fainter	the formation	symbols when
			magnetic forces	as the distance	of new materials,	representing a
			can act at a	from	and that this kind	simple circuit in a
			distance	the sound	of change is	diagram
			- observe how	source increases.	not usually	
			magnets attract or	<u>Electricity</u>	reversible,	
			repel each other	-identify common	including changes	
			and	appliances that run	associated	
			attract some	on electricity	with burning and	
			materials and not		the action of acid	
			others		on bicarbonate	





-compare and	-construct a simple	of soda.
group together a	series electrical	Earth and space
variety of everyday	circuit,	-describe the
materials on the	identifying and	movement of the
basis of whether	naming its basic	Earth, and other
they are attracted	parts, including	planets, relative to
to a magnet, and	cells, wires, bulbs,	the Sun in the solar
identify some	switches and	system
magnetic materials	buzzers	-describe the
- describe magnets	-identify whether	movement of the
as having two poles	or not a lamp will	Moon relative to
- predict whether	light in a simple	the Earth
two magnets will	series circuit, based	-describe the Sun,
attract or repel	on whether or not	Earth and Moon as
each	the lamp is part	approximately
other, depending	of a complete loop	spherical
on which poles are	with a battery	bodies
facing.	-recognise that a	-use the idea of the
	switch opens and	Earth's rotation to
	closes a circuit	explain
	and associate this	day and night and
	with whether or	the apparent
	not a lamp lights	movement of the
	in a simple series	sun across the sky.
	circuit	<u>Forces</u>
	-recognise some	-explain that
	common	unsupported
	conductors and	objects fall towards
	insulators,	the
	and associate	Earth because of
	metals with being	the force of gravity
	good	acting
	conductors.	





		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 levers,
		pulleys and gears,
		allow a smaller
		force to have a
		greater effect.
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