



	EYFS	K	S1	LKS2			UKS2
Торіс	Reception	Reception Year 1 Year 2		Year 3 Year 4		Year 5	Year 6
Biology: Living things Plants	The world ELG Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another, They make observations of animals and plants and explain why some things occur, and talk about changes.	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. Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.			InheritanceRecognise that living thing: produce offspring of the same kind, but normally offspring vary and are not identical to their parentsEvolutionRecognise that living thing: have changed over time and that fossils provide information about living things that inhabited the Earth millions of years agoAdaptation Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution





		People and communities	Identify and name a variety	Notice that animals,	Identify that animals,	Describe the simple	Describe the changes as	Identify and name the
		ELG	of common animals	including humans, have	including humans, need	functions of the basic parts	humans develop to old age	main parts of the human
		They know about	including fish, amphibians,	offspring, which grow into	the right types and amount	of the digestive system in		circulatory system, and
		similarities and differences	reptiles, birds and	adults.	of nutrition, and that they	humans.		describe the functions of
		between themselves and	mammals		cannot make their own			the heart, blood vessels
		others.		Find out about and	food; they get nutrition	Identify the different types		and blood
			Identify and name a variety	describe the basic needs of	from what they eat.	of teeth in humans and		
	s		of common animals that	animals, including humans,		their simple functions		Recognise the impact of
s	Ian		are carnivores, herbivores	for survival (water, food	Identify that humans and			diet, exercise, drugs and
Living things	including humans		and omnivores	and air)	some other animals have	Construct and interpret a		lifestyle on the way their
L 다	gр				skeletons and muscles for	variety of food chains,		bodies function
ing	din		Describe and compare the	Describe the importance	support, protection and	identifying producers,		
L;	clu		structure of a variety of	for humans of exercise,	movement.	predators and prey.		Describe the ways in which
Biology:			common animals (fish,	eating the right amounts of		,		nutrients and water are
e e	Animals		amphibians, reptiles, birds	different types of food, and				transported within
Bic	in		and mammals, including	hygiene.				animals, including humans.
	Ar		pets)	ilygicite:				
			petsy					
			Identify, name, draw and					
			label the basic parts of the					
			human body and say which					
			part of the body is					
			associated with each					
			sense.					









		The world ELG	Distinguish between an	Identify and compare the	Compare and group	Compare and group	Compare and group	
		Children know about	object and the material	suitability of a variety of	together different kinds of	materials together,	together everyday	
		similarities and differences	from which it is made	everyday materials,	rocks on the basis of their	according to whether they	materials on the basis of	
	(from which it is made	including wood, metal,		are solids, liquids or gases	their properties, including	
	(Y5	in relation to places,	Identify and name a variaty	_	appearance and simple	are solius, liquius of gases		
	als	objects, materials and	Identify and name a variety of everyday materials,	plastic, glass, brick, rock,	physical properties	Observe that some	their hardness, solubility,	
	eria	living things. They talk		paper and cardboard for	Describe in simple terms		transparency, conductivity	
	of materials (Y5)	about the features of their	including wood, plastic,	particular uses.	Describe in simple terms	materials change state	(electrical and thermal),	
	fr	own immediate environment and how	glass, metal, water, and rock	Find out how the choice of	how fossils are formed	when they are heated or	and response to magnets	
	s o		TOCK	Find out how the shapes of	when things that have	cooled, and measure or	Know that some materials	
	and changes	environments might vary	Describe the simple	solid objects made from some materials can be	lived are trapped within rock	research the temperature		
	hai	from one another, They make observations of	Describe the simple		TOCK	at which this happens in	will dissolve in liquid to	
	d c		physical properties of a	changed by squashing,	Recognise that soils are	degrees Celsius (°C)	form a solution, and describe how to recover a	
		animals and plants and	variety of everyday materials	bending, twisting and	made from rocks and	Identify the part played by	substance from a solution	
	ties	explain why some things occur, and talk about	materials	stretching.		evaporation and	substance from a solution	
	bert	changes.	Compare and group		organic matter.	condensation in the water	Use knowledge of solids,	
	rop	changes.	together a variety of			cycle and associate the	liquids and gases to decide	
ials	с) Р		everyday materials on the			,	how mixtures might be	
teri	(Y4		basis of their simple			rate of evaporation with	-	
Mat	er		physical properties.			temperature.	separated, including through filtering, sieving	
۲.	lati		physical properties.					
Chemistry: Materials	States of matter (Y4) Properties						and evaporating	
em	s o						Give reasons, based on	
Č	ate						evidence from comparative	
							and fair tests, for the	
	Y3)						particular uses of everyday	
	() s						materials, including metals,	
	ock						wood and plastic	
	R						Demonstrate that	
	[S 1]						dissolving, mixing and	
	s (K						changes of state are	
	ial						reversible changes	
	Everyday materials (KS1) Rocks (Y3)						וביני האשר לוומווצבי	
	ma						Explain that some changes	
	laγ						result in the formation of	
	ryd						new materials, and that	
	-ve						this kind of change is not	
	-						usually reversible,	
							including changes	
							associated with burning	





				and the action of acid on	
				bicarbonate of soda.	
			Recognise that they need		Use the idea that light
			light in order to see things		travels in straight lines to
			and that dark is the		explain that objects are
	Ś		absence of light.		seen because they give out
	§				or reflect light into the eye.
	shadows		Notice that light is		
p	f sh		reflected from surfaces.		Explain that we see things
sound	s of				because light travels from
d s	properties		Recognise that light from		light sources to our eyes or
and	per		the sun can be dangerous		from light sources to
sht	ro		and that there are ways to		objects and then to our
Physics: Light	and p		protect their eyes.		eyes.
ysic	sources a		Recognise that shadows		Use the idea that light
Ч	n		are formed when the light		travels in straight lines to
			from a light source is		explain why shadows have
	Light		blocked by a solid object.		the same shape as the
					objects that cast them
			Find patterns in the way		-
			that the size of shadows		
			change.		





			Identify how sounds are	
			made, associating some of	
			them with something	
			vibrating	
е				
<u></u>			Recognise that vibrations	
Volume			from sounds travel through	
- g			a medium to the ear	
un e				
Physics: Light and sound inds are made Pitch			Find patterns between the	
anc			pitch of a sound and	
Light a made			features of the object that	
Lig			produced it	
re S: e			p. caacca it	
Physics: sounds are			Find patterns between the	
Phy Ind			volume of a sound and the	
20L			strength of the vibrations	
3				
How			that produced it	
			Recognise that sounds get	
			fainter as the distance	
			from the sound source	
			increases.	





			Compare how things move	Explain that unsupported	
			on different surfaces	objects fall towards the	
				Earth because of the force	
			Notice that some forces	of gravity acting between	
			need contact between two	the Earth and the falling	
			objects, but magnetic	object	
			forces can act at a distance		
				Identify the effects of air	
			Observe how magnets	resistance, water	
ιţ			attract or repel each other	resistance and friction, that	
tric	s		and attract some materials	act between moving	
lec	net		and not others	surfaces	
qe	agı		Compare and group		
an	Σ		together a variety of	Recognise that some	
Physics: Forces and electricity	Forces and Magnets		everyday materials on the	mechanisms, including	
õ	es s		basis of whether they are	levers, pulleys and gears,	
S: F	orc		attracted to a magnet, and	allow a smaller force to	
sic	Ť		identify some magnetic	have a greater effect.	
hy			materials	Ū.	
-					
			Describe magnets as		
			having two poles		
			0.000		
			Predict whether two		
			magnets will attract or		
			repel each other,		
			depending on which poles		
			are facing.		
			ure lucing.		





		Identify common appliances	Associate the
		that run on electricity	brightness of a lamp
			or the volume of a
		Construct a simple series	buzzer with the
		electrical circuit, identifying	number and voltage
		and naming its basic parts,	of cells used in the
		including cells, wires, bulbs,	circuit.
		switches and buzzers	
d electricity and insulators			Compare and give
and electricity rs and insulatc		Identify whether or not a	reasons for variations
ectr insu		lamp will light in a simple	in how components
ele di		series circuit, based on	function, including the
		whether or not the lamp is	brightness of bulbs,
		part of a complete loop	the loudness of
Inct		with a battery	buzzers and the
Physics: Forces cuits Conducto			on/off position of
C ICS		Recognise that a switch	switches.
nys uit:		opens and closes a circuit	
lirc PI		and associate this with	Use recognised
0		whether or not a lamp	symbols when
		lights in a simple series	representing a simple
		circuit	circuit in a diagram.
		Recognise some common	
		conductors and insulators,	
		and associate metals with	
		 being good conductors.	





	T	Observe shares saves the		Describe the menuent of	
		Observe changes across the		Describe the movement of	
	ଲ	four seasons.		the Earth, and other	
	(KS2)	Observe and describe		planets, relative to the Sun	
	e (1	weather associated with		in the solar system	
	Space	the seasons and how day		,	
Space	Sp	length varies.		Describe the movement of	
)a(õ	length valles.			
Š	÷			the Moon relative to the	
and	ar			Earth	
a l	Э (
Earth	(KS1)			Describe the Sun, Earth and	
Еа	÷				
S	e.			Moon as approximately	
Physics	anges			spherical bodies	
Å	Сĥ				
	al C			Use the idea of the Earth's	
	ũ			rotation to explain day and	
	Season			night and the apparent	
	, Š				
	-/			movement of the sun	
				across the sky.	





Working Scientifically

Communicate scientifically (vocabulary, enquiry) **Investigate**, plan and carry out scientific investigations **Raise questions** about working scientifically and the world arou

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Raise que	stions about w	orking scientifically ar	nd the world around us

EYFS	KS1	LKS2	UKS2
EYFS Understanding Early Learning Goal The answer 'how' and 'why' questions their experiences in response to events. Speaking Early Learning Goal They develop their own narratives and explanations by connecting ideas or events.	KS1 Ask simple questions. Observe closely, using simple equipment. Use observations and ideas to suggest answers to questions. Identify and classify, suggesting ideas for groups. Perform simple comparative tests. Be able to suggest what to change and keep the same for a fair test. Gather and record simple data to help in answering questions. To be able to identify and verbalise skills used when completing assessments at the end of each topic.	LKS2 Ask relevant questions. • Set up simple, practical enquiries and comparative and fair tests. • Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers. • Gather, record, classify and present data in a variety of ways to help in answering questions. • Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables. • Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. • Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests. • Identify differences, similarities or changes related to simple, scientific ideas and processes. • Use straightforward, scientific evidence to answer questions or to support their findings.	UKS2 Plan enquiries, including recognising and controlling variables where necessary. • Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work. • Take measurements, using a range of scientific equipment, with increasing accuracy and precision. • Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models. • Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions. • Present findings in written form, displays and other presentations. • Use test results to make predictions to set up further comparative and fair tests. • Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments.