

		Science
	Worki	ing scientifically
_	a	asking simple questions and recognising that they can be answered in different ways
age	b	observing closely, using simple equipment
St	с	performing simple tests
Key Stage	d	identifying and classifying
×	e	using their observations and ideas to suggest answers to questions
	f	gathering and recording data to help in answering questions.
	Plants	
	la	identify and name a variety of common wild and garden plants, including deciduous and evergreen trees
	Ib	identify and describe the basic structure of a variety of common flowering plants, including trees.
	Anima	lls, including humans
	lc	identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
	١d	identify and name a variety of common animals that are carnivores, herbivores and omnivores
.	le	describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)
science Year	lf	identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.
CIE	Everyo	day materials
2	lg	distinguish between an object and the material from which it is made
	lh	identify and name a variety of everyday materials, including wood, plastic,
		glass, metal, water, and rock
	li	describe the simple physical properties of a variety of everyday materials
	lj	compare and group together a variety of everyday materials on the basis of their simple physical properties.
		nal changes
	lk	observe changes across the four seasons
		observe and describe weather associated with the seasons and how day length varies.
	Living	things and their habitats
	2a	explore and compare the differences between things that are living, dead, and things that have never been alive
7	2b	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
Year 2	2c	identify and name a variety of plants and animals in their habitats, including micro-habitats describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.
	Plants	
	2d	observe and describe how seeds and bulbs grow into mature plants



	Year 2	2e	find out and describe how plants need water, light and a suitable
		. .	temperature to grow and stay healthy.
		-	lls, including humans
		2f	notice that animals, including humans, have offspring which grow into adults
		2g	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 right amounts of
		2h	different types of food, and hygiene.
		Use of	everyday materials
			identify and compare the suitability of a variety of everyday materials,
		2i	including wood, metal, plastic, glass, brick, rock, paper and cardboard for
			particular uses
			find out how the shapes of solid objects made from some materials can be
		2j	changed by squashing, bending, twisting and stretching.
		Worki	ing scientifically
		asking relevant questions and using different types of scientific enquiries to	
		g asking relevant questions and using different types of scientific er answer them	
		h	setting up simple practical enquiries, comparative and fair tests
		- "	
		i	making systematic and careful observations and, where appropriate, taking
			accurate measurements using standard units, using a range of equipment,
	_		including thermometers and data loggers
	S2	j	gathering, recording, classifying and presenting data in a variety of ways to
	X		help in answering questions
	'er	k	recording findings using simple scientific language, drawings, labelled
S	Lower KS2		diagrams, keys, bar charts, and tables
Science		l m	reporting on findings from enquiries, including oral and written explanations,
Sc			displays or presentations of results and conclusions
			using results to draw simple conclusions, make predictions for new values,
			suggest improvements and raise further questions
			identifying differences, similarities or changes related to simple scientific ideas
		n	and processes
			using straightforward scientific evidence to answer questions or to support
		0	their findings.
		Plants	
			identify and describe the functions of different parts of flowering plants:
		3a roots, stem/trunk, leaves and flowers	
		explore the requirements of plants for life and growth (air, light, w	
			nutrients from soil, and room to grow) and how they vary from plant to
		55	plant
		3c	
		JU	investigate the way in which water is transported within plants
	m	3d	explore the part that flowers play in the life cycle of flowering plants,
	Year 3	A	including pollination, seed formation and seed dispersal.
	۲e	Anima	Ils, including humans
			identify that animals, including humans, need the right types and amount of
		3e	nutrition, and that they cannot make their own food; they get nutrition from
			what they eat
		3f	identify that humans and some other animals have skeletons and muscles for
			support, protection and movement.
		Rocks	
		2.4	compare and group together different kinds of rocks on the basis of their
		3g	appearance and simple physical properties



		3h	describe in simple terms how fossils are formed when things that have lived	
			are trapped within rock	
		3i	recognise that soils are made from rocks and organic matter.	
		Light		
		3j	recognise that they need light in order to see things and that dark is the absence of light	
		3k	notice that light is reflected from surfaces	
			recognise that light from the sun can be dangerous and that there are ways	
		31	to protect their eyes	
		3m	recognise that shadows are formed when the light from a light source is blocked by a solid object	
	ň	3n	find patterns in the way that the size of shadows change.	
	Year 3		and magnets	
30 compare how things move on different surfaces	compare how things move on different surfaces			
			notice that some forces need contact between two objects, but magnetic	
		3р	forces can act at a distance	
		2	observe how magnets attract or repel each other and attract some materials	
		3q	and not others	
			compare and group together a variety of everyday materials on the basis of	
		3r	whether they are attracted to a magnet, and identify some magnetic	
			materials	
		3s	describe magnets as having two poles	
		3t	predict whether two magnets will attract or repel each other, depending on	
			which poles are facing.	
S		Living	things and their habitats	
Science		4a	recognise that living things can be grouped in a variety of ways	
Š		4b	explore and use classification keys to help group, identify and name a variety	
		UF	of living things in their local and wider environment	
		4c	recognise that environments can change and that this can sometimes pose	
		Animals, including humans 4d		
			humans	
			identify the different types of teeth in humans and their simple functions	
		4f	4f construct and interpret a variety of food chains, identifying producers,	
		predators and prey.		
	r 4	States	of matter	
	Year 4	4g compare and group materials together, according to whether they are liquids or gases	liquids or gases	
			observe that some materials change state when they are heated or cooled,	
		4h	and measure or research the temperature at which this happens in degrees	
			Celsius (°C)	
		4i	identify the part played by evaporation and condensation in the water cycle	
			and associate the rate of evaporation with temperature.	
		Sound		
		4j	identify how sounds are made, associating some of them with something	
			vibrating	
		4k	recognise that vibrations from sounds travel through a medium to the ear	
		41	find patterns between the pitch of a sound and features of the object that produced it	



	4m	find patterns between the volume of a sound and the strength of the
		vibrations that produced it
	4n	recognise that sounds get fainter as the distance from the sound source
		increases.
	Electr	•
4	4 0	identify common appliances that run on electricity
Year 4	4р	construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
	4q	identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
	4r	recognise that a switch 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
	4 s	with being good conductors.
	Work	ing scientifically
	VV Ork	
	р	planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
ge 2	q	taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
ta		recording data and results of increasing complexity using scientific diagrams
× S	r	and labels, classification keys, tables, scatter graphs, bar and line graphs
Ke		using test results to make predictions to set up further comparative and fair
5	S	tests
Science Upper Key Stage	t	reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral
er		and written forms such as displays and other presentations
SCI	u	identifying scientific evidence that has been used to support or refute ideas or arguments.
	Living	things and their habitats
		describe the differences in the life cycles of a mammal, an amphibian, an
	5a	insect and a bird
	5b	
		describe the life process of reproduction in some plants and animals.
Animals, including humans		
	5c	describe the changes as humans develop to old age.
	Prope	rties and changes of materials
	5d compare and group together everyday materials on the basis properties, including their hardness, solubility, transparency, (electrical and thermal), and response to magnets	
Year 5	5e	know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
×	5f	use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
	5g	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
	5h	changes
		explain that some changes result in the formation of new materials, and that
	5i	this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.



		Earth	and space	
			describe the movement of the Earth, and other planets, relative to the Sun in	
		5j	the solar system	
		5k	describe the movement of the Moon relative to the Earth	
		51	describe the Sun, Earth and Moon as approximately spherical bodies	
	10	E	use the idea of the Earth's rotation to explain day and night and the apparent	
	Year 5	5m	movement of the sun across the sky.	
		Forces	5	
		5n	explain that unsupported objects fall towards the Earth because of the force	
		511	of gravity acting between the Earth and the falling object	
		5o	identify the effects of air resistance, water resistance and friction, that act	
		30	between moving surfaces	
		5р	recognise that some mechanisms, including levers, pulleys and gears, allow a	
		-	smaller force to have a greater effect.	
		Living	things and their habitats	
		_	describe how living things are classified into broad groups according to	
		6a	common observable characteristics and based on similarities and differences,	
			including micro-organisms, plants and animals	
		6b	give reasons for classifying plants and animals based on specific	
			characteristics.	
		Anima	als, including humans	
	 recognise that living things produce offspring of the sam 	6c		
Ce		6d		
en				
Sci		6 e		
		Evolut		
		-		
		6f	information about living things that inhabited the Earth millions of years ago	
		recognise that living things produce offspring of the same kind, but normally		
	ear	6g offspring vary and are not identical to their parents		
	Ye	/ h	identify how animals and plants are adapted to suit their environment in	
		6h	different ways and that adaptation may lead to evolution.	
		Light		
		6i	recognise that light appears to travel in straight lines	
		۷:	use the idea that light travels in straight lines to explain that objects are seen	
		6j	because they give out or reflect light into the eye	
		6k	explain that we see things because light travels from light sources to our	
		UK	eyes or from light sources to objects and then to our eyes	
		61	use the idea that light travels in straight lines to explain why shadows have	
			the same shape as the objects that cast them.	
		Electr		
		6 m	associate the brightness of a lamp or the volume of a buzzer with the	
			number and voltage of cells used in the circuit	
			compare and give reasons for variations in how components function,	
		6 n	including the brightness of bulbs, the loudness of buzzers and the on/off	
			position of switches	
		60	use recognised symbols when representing a simple circuit in a diagram.	



			Geography
		Locatio	onal knowledge
		la	name, locate and identify characteristics of the four countries and capital
			cities of the United Kingdom and its surrounding seas.
		Place I	knowledge
		lb	understand geographical similarities and differences through studying the
		ID	human and physical geography of a small area of the United Kingdom, and of a small area in a contrasting non-European country
	_	Humai	n and physical geography
	Year		key human features, including: city, town, village, factory, farm, house, office,
	Υe	lc	port, harbour and shop
		Geogra	aphical skills and fieldwork
			use world maps, atlases and globes to identify the United Kingdom and its
		١d	countries, as well as the countries, continents and oceans studied at this key
			stage
			use simple compass directions (North, South, East and West) and locational and
		le	directional language [for example, near and far; left and right], to describe the
			location of features and routes on a map
			onal knowledge
		2a	name and locate the world's seven continents and five oceans
		Place I	knowledge
		21	understand geographical similarities and differences through studying the
-		2b	human and physical geography of a small area of the United Kingdom, and of a small area in a contrasting non-European country
(hq	7	Luma	n and physical geography
Geography	Year 2	Tuma	the location of hot and cold areas of the world in relation to the Equator
806	>	2c	and the North and South Poles
Ŭ			
			use basic geographical vocabulary to refer to:
		2d	-key physical features, including: beach, cliff, coast, forest, hill,
			mountain, sea, ocean, river, soil, valley, vegetation, season and
			weather
		Geogra	aphical skills and fieldwork
		2.	use world maps, atlases and globes to identify the United Kingdom and its
		- 3a	countries, as well as the countries, continents and oceans studied at this key
		Locatio	stage onal knowledge
		LUCatio	locate the world's countries, using maps to focus on Europe (including the
		3b	location of Russia), concentrating on their environmental regions, key
	r 3		physical and human characteristics, countries, and major cities
	Year 3	Place l	knowledge
	≻		understand geographical similarities and differences through the study of
		3c	human and physical geography of a region of the United Kingdom, a region in
			a European country.
		Huma	n and physical geography
		3d	physical geography, including: climate zones, biomes and vegetation belts,
		2.	mountains, volcanoes
		3e	human geography, including: types of settlement and land use
	ar	Locatio	onal knowledge
	Year 4	4 a	name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key
			regions and their identifying numan and physical characteristics, key



			topographical features (including hills, mountains, coasts and rivers), and	
			land-use patterns; and understand how some of these aspects have changed	
			over time	
		Human and physical geography		
		4b	physical geography, including:, rivers, mountains, volcanoes and earthquakes,	
			and the water cycle	
		4c	human geography, including: types of settlement and land use.	
		Place I	knowledge	
	Year 5		understand geographical similarities and differences through the study of	
		5a	human and physical geography of a region of the United Kingdom, a region in	
			a European country, and a region within North or South America	
		Human and physical geography		
		5b	physical geography, including: climate zones, biomes and vegetation belts	
		5c	human geography, including: types of settlement and land use,	
		Place knowledge		
			understand geographical similarities and differences through the study of	
		6 a	human and physical geography of a region of the United Kingdom, a region in	
	9		a European country, and a region within North or South America	
	Year	Huma	n and physical geography	
	۲e		human geography, including: types of settlement and land use, economic	
		6b	activity including trade links, and the distribution of natural resources	
		50	including energy, food, minerals and water	



			History
	Key Stage I	la	changes within living memory. Where appropriate, these should be used to reveal aspects of change in national life
		١b	events beyond living memory that are significant nationally or globally [for example, the Great Fire of London, the first aeroplane flight or events commemorated through festivals or anniversaries]
		lc	the lives of significant individuals in the past who have contributed to national and international achievements. Some should be used to compare aspects of life in different periods [for example, Elizabeth I and Queen Victoria, Christopher Columbus and Neil Armstrong, William Caxton and Tim Berners-Lee, Pieter Bruegel the Elder and LS Lowry, Rosa Parks and Emily Davison, Mary Seacole and/or Florence Nightingale and Edith Cavell]
		١d	significant historical events, people and places in their own locality.
Ž		2a	changes in Britain from the Stone Age to the Iron Age
History		2b	the Roman Empire and its impact on Britain
His		2c	Britain's settlement by Anglo-Saxons and Scots
		2d	the Viking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the Confessor
	~ 1	2e	a local history study
	age 2	2f	a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066
	Key Stage	2g	the achievements of the earliest civilizations – an overview of where and when the first civilizations appeared and a depth study of one of the following: Ancient Sumer; The Indus Valley; Ancient Egypt; The Shang Dynasty of Ancient China
		2h	Ancient Greece – a study of Greek life and achievements and their influence on the western world
		2i	a non-European society that provides contrasts with British history – one study chosen from: early Islamic civilization, including a study of Baghdad c. AD 900; Mayan civilization c. AD 900; Benin (West Africa) c. AD 900-1300.



			Art and Design
	Key Stage I	la	to use a range of materials creatively to design and make products
		lb	to use drawing, painting and sculpture to develop and share their ideas, experiences and imagination
sign		lc	to develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space
and Design		١d	about the work of a range of artists, craft makers and designers, describing the differences and similarities between different practices and disciplines, and making links to their own work.
Art	e 2	2a	to create sketch books to record their observations and use them to review and revisit ideas
	Key Stage	2b	to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]
	¥	2c	about great artists, architects and designers in history.



	Design Technology		
		Design	
		la	design purposeful, functional, appealing products for themselves and other users based on design criteria
		lb	generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology
		Make	
S		lc	select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
Design Technology	Key Stage I	١d	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics
ign	еy	Evaluat	te
Desi	Ŷ	le	explore and evaluate a range of existing products
		lf	evaluate their ideas and products against design criteria
		Techni	cal Knowledge
		lg	build structures, exploring how they can be made stronger, stiffer and more stable
		lh	explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.
		Cookin	g and nutrition
		li	use the basic principles of a healthy and varied diet to prepare dishes
		lj	understand where food comes from.
		Design	
		2a	use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
		2b	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
		Make	
ology	2	2c	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
Design Technology	Key Stage 2	2d	select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities
L	ελ	Evaluat	
sig	Y	2e	investigate and analyse a range of existing products
De		2f	evaluate their ideas and products against their own design criteria and
		21	consider the views of others to improve their work
		2g	understand how key events and individuals in design and technology have helped shape the world
		Techni	cal Knowledge
		2h	apply their understanding of how to strengthen, stiffen and reinforce more complex structures
		2i	understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]



	2j	understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
	2k	apply their understanding of computing to program, monitor and control their products.
	Cookin	ng and nutrition
	21	understand and apply the principles of a healthy and varied diet
	2m	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
	2n	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.



			Computing
		la	understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
		lb	create and debug simple programs
	e –	lc	use logical reasoning to predict the behaviour of simple programs
	Key Stage	١d	use technology purposefully to create, organise, store, manipulate and retrieve digital content
	Ke	le	recognise common uses of information technology beyond school
		lf	use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.
Computing		2a	design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
Com		2b	use sequence, selection, and repetition in programs; work with variables and various forms of input and output
		2c	use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
	tage 2	2d	understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
	Key Stage	2e	use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
		2f	select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
		2g	use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.



			Music			
Music	Key Stage I	la	use their voices expressively and creatively by singing songs and speaking chants and rhymes			
		١b	play tuned and untuned instruments musically			
		١c	listen with concentration and understanding to a range of high-quality live and recorded music			
		١d	experiment with, create, select and combine sounds using the inter-related dimensions of music.			
	Key Stage 2	2a	play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression			
		2b	improvise and compose music for a range of purposes using the inter-related dimensions of music			
		2c	listen with attention to detail and recall sounds with increasing aural memory			
		2d	use and understand staff and other musical notations			
		2e	appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians			
		2f	develop an understanding of the history of music.			



			DE			
		PE				
PE	Key Stage I	la	master basic movements including running, jumping, throwing and catching, as well as developing balance, agility and co-ordination, and begin to apply these in a range of activities			
		IЬ	participate in team games, developing simple tactics for attacking and defending			
		lc	perform dances using simple movement patterns.			
	Key Stage 2	2a	use running, jumping, throwing and catching in isolation and in combination			
		2b	play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending			
		2c	develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]			
		2d	perform dances using a range of movement patterns			
		2e	take part in outdoor and adventurous activity challenges both individually and within a team			
		2f	compare their performances with previous ones and demonstrate improvement to achieve their personal best.			
	ъ	Swim	ming and water safety			
	Key Stage I or	g	swim competently, confidently and proficiently over a distance of at least 25 metres			
		h	use a range of strokes effectively [for example, front crawl, backstroke and breaststroke]			
	(əy	i	perform safe self-rescue in different water-based situations.			



			Languages				
	Key Stage 2	2a	listen attentively to spoken language and show understanding by joining in and responding				
		2b	explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words				
		2c	engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help*				
		2d	speak in sentences, using familiar vocabulary, phrases and basic language structures				
		2e	develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases*				
ges		2f	present ideas and information orally to a range of audiences*				
Languages		2g	read carefully and show understanding of words, phrases and simple writing				
		2h	appreciate stories, songs, poems and rhymes in the language				
		2i	broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary				
		2j	write phrases from memory, and adapt these to create new sentences, to express ideas clearly				
		2k	describe people, places, things and actions orally* and in writing				
		21	understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English.				
Th	The starred (*) content above will not be applicable to ancient languages.						