	Science	A			
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Su
	???	222	222	777	
asking simpl observing cl performing : identifying a using their o gathering ar otes and gui upils in years nses, egg tir eography sk	uirements 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills throu le questions and recognising that they can be answered in different ways osely, using simple equipment simple tests and classifying boservations and ideas to suggest answers to questions nd recording data to help in answering questions. <i>Ideace (non-statutory)</i> 5 and 2 should explore the world around them and roise their own questions. They should experience diff discussions and should be applied to the should be applied to the should experience diff the should be applied the should be applied to the should be applie	erent types of scientific enquiries, including practical activities, and begin to recognise ways in which they m and how they found it out. With help, they should record and communicate their findings in a range of ways		ings and, with help, decide how to sort and group them, observe changes over time, and, with guidance, the d across years 1 and 2 so that the expectations in the programme of study can be met by the end of year 2. F	
use simple o use aerial ph use simple f story	compass directions (North, South, East and West) and locational and directional language (for example, nea hotographs and plan perspectives to recognise landmarks and basic human and physical features; devise a leidwork and observational skils to study the geography of their school and its grounds and the key human	r and far; left and right], to describe the loaction of features and routes on a map. imple map; and use and construct basic symbols in a key and physical features of its surrounding environment.	arities and differences between ways of life in different periods. They should use a wide vocabulary of everyc	ay historial terms. They should ask and answer questions, choosing and using parts of stories and other source	es to show that they know and understand
hysical Educ upils should upils should master basin participate i	tation	nge of opportunities to extend their ability, balance and coordination, individually and with others. They sho	uld be able to engage in competitive (both against self and against others) and co-operative physical activitie		
omputing upils should understand create and c use logical n use technolo recognise co	It is using simple interement parterns. be taught to: what algorithms are; how they are implemented as programs on digital devices; and what programs execut debug simple programs easoning to predict the behaviour of simple programs gry purposefully to create, organise, store, manipulate and retrieve digital content mmon use of information technology beyond school gry safely and respectfully, keeping personal information private; identify whete to go for help and support				
use their voi play tuned a isten with c	be taught to: ices expressively and creatively by singing songs and speaking chants and rhymes and untuned instruments musically concentration and understanding to a range of high-quality live and recorded music t with, create, select and combine sounds using the inter-related dimensions of music.				
use a range to use drawi develop a v	n be taught to: of materials creatively to design and make products ing. painting and sculpture to develop and share their ideas, experiences and imagination wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space ork of a range of artists, craft makers and designers, describe the differences and similarities between diffe	rrent practices and disciplines, and making links to their own work.			
hen designi esign design purpi generate, de ake select from select from ealuate explore and evaluate the echnical kno	iety of creative and practical activities, pupils should be taught the knowledge, understanding and skills ner ng and making, pupils should be taught to: oschil, indicional, appealing products for themselves and other users based on design critieria evelop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where app and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining ar and use a wide range of materials and components, including construction materials, textiles and ingedient evaluate a range of existing products er ideas and products against design criteria	ropriate, information and communication technology. df finishing]	exts [for example, the home and school, gardens and playgrounds, the local community, industruy and the w	der environment].	
	use mechanisms [for example, levers, sliders, wheels and axles], in their products.				
upils should	be taught to:	ing. Instilling a love of cooking in pupils wil also open a door to one of the great expressions of human creati	vity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably a	nd well, now and later in life.	
	ic principles of a healthy and varied diet to prepare dishes where food comes from.				
-	Living Things a	nd Habitats (Y2)	Animals inc. Humans (Y1)	Animals inc. Humans (Y2)	
Year 1 & 2	Statutory requirements Pupils should be taught to: * explore and compare the differences between things that are living, dead, and things that have never been alive * 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		environment and the need to return them safely after study. Pupils should become familiar with the common names of some fish, amphibians, reptiles, birds and mammals, including those that are kept as pels. Pupils should have plenty of apportunities to learn the names of the main body parts (including head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth) through games, actions, songs and rhymes. Pupils might work scientifically by: using their observations to compare and contrast animals at first hand or through yidleso	Statutory requirements Pupils should be taught to: * notice that animals, including humans, have offspring which grow into adults * find out about and describe the basis needs of animals, including humans, for survival (water, food and air) * describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. <i>Notes and guidance (non-statutory)</i> Pupils should be introduced to the basis needs of animals for survival, as well as the importance of exercise and nutrifors for humans. They should also be introduced to the processes of reproduction and growth in animals. The focus at this stage should be an questions that help pupils to recognise growth; they should not be expected to understand how reproduction occurs. <i>Notes and guidance (non-statutory)</i> The following examples might be used: egg, chick, chicker; egg, caterpillor, pupo, butterfly; spown, tadpole, frog, imm), sheep. Growing into adults can include reference to baby, todder, child, teenager, adult. Pupils might work scientifically by: observing, through wideo of first- hand observenter, how different, how different nimes, including humans, grow, sciking questions about what things animals need for survival and what humans need to stay healthy; and suggesting ways to find answers to their questions.	
	Mary Anning	Where R we in the world?	Sensational	Safari - Kenya	

erm 1	Summer Term 2
	777
	???
should ask people questions and use simple secon a of study.	dary sources to find answers. They should use simple measurements and equipment (for example, hand
f events. They should understand some of the way	is in whoch we find out about the past and identify different ways in which it is represented.
Great Scientists & Exp	lorers (scientific skills)
Great Expectati	ons & Transport
* significant historical events, peo * use basic geographica	pl and places in their own locality. I vocabulary to refer to:
atures, including: beach, cliff, coast, forest, hill, mo	, factory, farm, house, office, port, harbour and shop

	 * use maps, atlases, globes and digital/computer mapping to locate countries and * use the eight points of a compass, found and six-figure grid references, symbols 	and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world			
	Pupils should continue to develop a chronologically secure knowledge and unders	anding of British, local and world history, establishing clear narratives wihtin and across the periods they study. They should note connections, co	ntrasts and trends over time and develop the appropriate use of historical terms. They should regularly addre	ess and sometimes devise historically valid questions about change, cause, similarity and difference, and signi	ficance. They should construct informed responses that involv
	Pupils should continue to apply and develop a broader range of skills, learning ho Pupils should be taught to:	r to use them in different ways and to link them to make actions and sequences of movement. The should enjoy communicating, collaborating an	d competing with each other. They should develop an understanding of how to improve in different physical a	ctivities and sports and learn how to evaluate and recognise their own success.	
	 * develop flexibility, strength, technique, control and balance [for example, throu * perform dances using a range of movement patterns 	gh athletics and gymnastics]			
	* compare their performances with previous ones and demonstrate improvement				
	Pupils should be taught to: design, write and debug programs that accomplish specific goals, including oun use sequence, selection, and repetition in programs, work with variables and va- use slogical reasoning to explain how some simple algorithms work and to detect understand computer networks including the interret; how they can provide m seaser, use aerach technologies effectively, appreciate how results are selected and arm select, use and combine a variety of software (including interret services) on a select, use and combine a variety of software (including interret services) on the second combine a variety of software (including interret services) on the second combine a variety of software (including interret services) on the second combine a variety of software (including interret services) on the second combine a variety of software (including interret services) on the second combine a variety of software (including interret services) on the second combine available of the second com	rious forms of input and output and correct errors in algorithms and programs ultiple services, such as the world wide web; and the opportunities they offer for communication and collaboration ked, and be discerning in evaluating digital content ange 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		
Procession	Pupils should be taught to sing and play musically with increasing confidence and Pupils should be taught to: * play and perform in solo and ensemble contexts, using their voices and playing * improvise and compose music for a range of purposes using the inter-related di * listen with attention to detail and recail sounds with increasing aural memory * use and understand staff and other musical notations * appreciate and understan a valie range of high-quality live and recorded music.	nusical instruments with increasing accuracy, fluency, control and expression. mensions of music	ing sounds from aural memory.		
No series of the	Pupils should be taught: to create sketch books to record their observations and use them to review and r * to improve their mastery of art and design techniques, including drawing, paint	evisit ideas			
	Through a variety of creative and practical activities, pupils should betaught the When designing and making, pupils should be taught to:	towledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant con	texts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].		
With models Processing With models Processing <td< td=""><td>* generate, develop, model and communicate their ideas through discussion, ann Make * select from and use a wider range of tools and equipment to perform practical</td><th>otated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design asks [for example, cutting, shaping, joinging and finishing], accurately</th><td></td><td></td><td></td></td<>	* generate, develop, model and communicate their ideas through discussion, ann Make * select from and use a wider range of tools and equipment to perform practical	otated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design asks [for example, cutting, shaping, joinging and finishing], accurately			
Note of the second	Evaluate * investigate and analyse a range of existing products * evaluate their ideas and products against their own design criteria and consider	the views of others to improve their work			
	Technical knowledge * apply their understanding of how to strengthen, stiffen and reinforce more com * understand and use mechanical systems in their products [for example, gears, j * understand and use electrical systems in their products [for example, series cirr	plex structures ulleys, cams, levers and linkages] uits incorporating switches, bulbs, buzzers and motors]			
In close de la	Cooking and nutrition As part of their work with food, pupils should be taught how to cook and apply th Pupils should be taught to:		tivity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably a	and well, now and later in life.	
<pre> set out out of using a minute set out of using a minute set out out out out out out out out out ou</pre>	Teaching may be of any modern or ancient foreign language and should focus on The focus of study in modern languages will be on practical communication. If an Pupils should be taught to:	ancient language is chosen the focus will be to provide a linguistic foundation for reading comprehension and an appreciation of classical civilisati	and should lay the foundations for further foreign language teaching at key stage 3. It should eneable pupils on. Pupils studying ancient languages may take part in simple oral exchanges, while discussion of what they re	to understand and communicate ideas, facts and feelings in speech and writing, focused on familiar and routi ead will be conducted in English. A liguistic foundation in ancient languages may support the study of modern	ne matters, using their knowledge of phonology, grammatical : languages at key stage 3.
<pre>Interfactor with and with and with and with and with a stand with</pre>	 explore the patterns and sounds of language through songs and rhymes and linil engage in conversations; ask and answer questions; express opinions and respo speak in sentences, using familiar vocabulary, phrases and basic language struct 	the spelling, sound and meaning of words nd to those of others; seek clarification and help* ures			
<pre> windspices from sensity, and got these from sensity these from s</pre>	* present ideas and information orally to a range of audiences* *read carefully and show understanding of words, phrases and simple writing * appreciate stories, songs, poems and rhymes in the language				
Subject	 * write phrases from memory, and adapt these to create new sentances, to exprese * describe people, places, things and actions orally* and in writing * understand basic grammar appropriate to the language being studied, including 	ss ideas clearly	how to apply these, for instance, to build sentences; and how these differ from or are similar to English.		
Physical Education Swimming and water safety All Schods must provide swimming instruction either in key stage 1 or key stage 2. In particular, pupils should be taught to: * swim contentity, confidently and proficiently over a distance of at least 25 metres. * use a mage of strokes effectively (for example, front craw, back stroke and breaststroke * perform safe self-rescue in different water-based situations.	Statutory reguirements During vars: 3 and 4, pupils should be taught to use the following p asking relevant questions and using different types of scientifice er sating up simple practical enquiries, comparative and fair tests making systematic and careful doservations and, where appropria gathering, recording, classifying and presenting data in a variety o recording finding suins gimple scientific language, drawing, labe reporting on findings from enquiries, including oral and written e tidentifying differences, similarities or changes related to simple s taujes straightforward scientific evidence to answer questions or t Notes and guidance (non-statutory) Pupils in years 3 and 4 should be given a range of scientific experie long to make them for and the type of simple equipment that migh Notes and guidance (non-statutory) Threy should keam how to use new equipment, such as data loggers	quiries to answer them te, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers ways to help in answering questions led diagrams, (exp, so charts, and tables planations, displays or presentations of results and conclusions values, sugget timprovements and raise further questions ientific icleas and processes support their findings. sces to enable them to raise their own questions about the world around them. They should start to make their own decisions about the most app the used. appropriately. They should collect data from their own observations and measurements, using notes, simple tables and standard units, and help	to make decisions about how to record and analyse this data. With help, pupils should look for changes, pat	terns, similarities and differences in their data in order to draw simple conclusions and answer questions. Wi	ith support, they should identify new questions arising from th
All schools must provide summing instruction either in key stage 1 or key stage 2. In particular, pupils should be taught to: * swim cometently, confidently and proficiently over a distance of at least 25 metres. * use a mage of strokes effectively (for example, front craw, back stroke and breaststroke * perform safe self-rescue in different water-based situations.	Physical Education				
	All schools must provide swimming instruction either in key stage 1 In particular, pupils should be taught to: * swim cometently, confidently and proficiently over a distance of * use a rnage of strokes effectively (for example, front craw, back s	t least 25 metres.			
		Animals Inc. Humans (Y3)	Rocks (Y3)	Forces (Y3)	

KS2

wolve thoughtful selection and organisation of relevant historical information. They should understand how our knowledge of the past is constructed from a tical structures and vocabulary. ing patterns and relationships and decide what data to collect to identify them. They should help to make decisions about what observ o make, hov om the data, making predictions for new values within or beyond the data they have collected and finding ways of improving what they have already done. ils are not expected to cover each aspect for every area of study. Sound (Y4)

* identify that humans and some other animals have skell Notes and guidan Pupils should continue to learn about the importance of nutrition and should be intro how different parts of the body have special functions. Pupils might work scientifically by: identifying and	Lie taught to: ion, and that they cannot make their own food; they get nutrition from what they eat etons and muscles for support, protection and movement. ce (non-stotutory) douced to the main body parts associated with the skeleton and muscles, finding out douced to the main body parts associated with the skeleton and muscles, finding out discts of different inamise (including their pets) and decide woys of grouping them recording to what they they they the state they are the state of the state the state of the state	Statutory requirements Pupils should be taught to: • compare and group together different kinds of rocks on the basis of their appearance and simple physical properties • describe in simple terms how fossils are formed when things that have lived are trapped within rock • recognite that soils are made from rocks and organic matter. <i>Notes and guidance (non-statutory)</i> Linked with work in geography, pupils should explore different kinds of rocks of soils, including those in the local environment. <i>Notes and guidance (non-statutory)</i> Pupils might work scientifically by: observing rock, including those used in buildings and gravestones, and exploring how and why they might have changed over time; using a hond lens or microscope to help them to identify and classly rocks according to whether they have grains or crystals, and whether they have fossils in them. Pupils might research and discuss the different kinds of living things whose (possils on e found in sedimentary rock and exploring hore classis or e found in sedimentary rock and angles when focks are upuble together or what changes occur when they are in water. They can raise and answer questions about the way soils are formed.	Statuory requirements Fuglis should be taught to: "compare how things move on different surfaces "concern the surface of the surfac	
Ston	e Age	Mountains, Riv	ers, Coasts - UK	
* changes in Britain from th Examples (na This coult *late Nealithic hunter-gatheres and * Branze Age religion, technolog an * Branze Age religion, technolog an		 physical geography, including: climate zones, biomes and vegetation name and locate counties and cities of the United Kingdom, geographical regions and their identifying hu 	rsical geography stand key aspects of: edits, rivers, mountains, volcanoes and earthquakes, and the water cycle. man and physical characteristics, key topgraphical feathures (including hills, mountains, coasts and rivers), ome of these aspects have changed over time.	* Romanisation' of
recording data and results of increasing complexity using scientific diagrams and labels, classification keys * 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 explanati * identifying scientific evidence that has been used to support or refute ideas or arguments. <i>Notes and audiance from-statutary</i>				
¹ using test results to make predictions to set up further comparative and fair tests ² reporting and presenting findings from enquiries, including conclusions, causal relationships and explanati ³ identifying scientific evidence that has been used to support or relite ideas or arguments. Notes and guidance (non-statutory) Pupils in years 3 and 6 should use their science experiences to: explore ideas and raise different kinds of quu long to make them for, and whether to repeat them; choose the most appropriate equipment to make mean and justly their sciencific ideas and should talk about how scientific ideas have developed over time. Notes and guidance (non-statutory)	ions of and degree of trust in results, in oral and written forms such as displays and other presentations estions; select and plan the most appropriate type of scientific enquiry to use to answer scientific questions	r, recognise when and how to set up comparative and fair tests and explain which variables need to be contr miliar approaches; look for different causal relationships in their data and identify evidence that refutes or s cct for every area of study.		
¹ using test results to make predictions to set up further comparative and fair tests ² reporting and presenting findings from enquiries, including conclusions, causal relationships and explanati ³ identifying scientific evidence that has been used to support or relite ideas or arguments. Notes and guidance (non-statutory) Pupils in years 3 and 6 should use their science experiences to: explore ideas and raise different kinds of quu long to make them for, and whether to repeat them; choose the most appropriate equipment to make mean and justly their sciencific ideas and should talk about how scientific ideas have developed over time. Notes and guidance (non-statutory)	ions of and degree of trust in results, in oral and written forms such as displays and other presentations estions; select and plan the most appropriate type of scientific enquiry to use to answer scientific questions asurements and explain how to use it accurately. They should decide how to record data from a choice of fa	miliar approaches; look for different causal relationships in their data and identify evidence that refutes or s cct for every area of study.		
• using test results to make predictions to set up further comparative and fair tests. • reporting and presenting findings from enquires, including conclusions, causal relationships and explanative idence that has been used to support or refute ideas or arguments. <i>Notes and guidance (non-statutory)</i> Pupils in years 5 and 6 should use their science experiences to: explore ideas and raise different kinds of qui long to make them for, and whether to repost them, choose the most appropriate equipment to make meet and justify their sciencific elas and should tak down how scientific ideas have developed over time. <i>Notes and guidance (non-statutory)</i> These opportunities for working scientifically should be provided across years 5 and 6 so that the expectation is the science of the science of gravity acting between the failed optical. These opportunities of air existance, water resistance and field one to be weed the failed optical. Forces (YS) Statutory requirements Fupils should be taught to: • explain that unsupported objects fail towards the Earth because of the force of gravity acting between the Earth and the failing optical. • identify the effects of air resistance, water resistance and fiction, that act between moving surfaces. • receiptise that some mechanism, including levers, pulleys and gears, allow a smaller force to have a greater effect. Notes and guidonce (non-statutory) Pupils should explore folling objects and noise outfines things begin to move, get foster or solw down. Pupils should deplore the effects of air resistance, breasting adving the effects of air resistance by observing the effects of and use outpressions about the effects of and own. Pupils should deplore the effects of a tresist on because the single begin to way. Early beside weather the splay should explore folling objects of a breast things begin to move, get foster or solw down. Pupils should deplore the effects of a breasting begin and breast things be	estions of and degree of trust in results, in oral and written forms such as displays and other presentations estions; select and plan the most appropriate type of scientific enquiry to use to answer scientific questions assurements and explain how to use it accurately. They should decide how to record data from a choice of for ions in the programme of study can be met by the end of year 6. Pupils are not expected to cover each aspe Earth & Space (YS) Statutory requirements Pupils should be taught to: * describe the movement of the Earth, and other planets, relative to the Sun in the solar system * describe the movement of the Earth, and other planets, relative to the Sun in the solar system * describe the Sun, Earth and Moon as approximately spherical bodies * use the idea of the Earth's rotation to explain day and right and the apparent movement of the sun * Cost the Sun is a stor of the constructory) Pupils should be introduced to a model of the Sun and Earth that enables them to explain day and night. * Dugits should heir the Sun is a stor of the constructory) Pupils should meritated the Sun is a stor of the constructory Pupils should acount the Sun is a stor of the constructory Note: Pupils should be warned that it is not safe to lock directly of the Sun, even when wearing dark glasses. Note: and guidance (non-situatory) Pupils should find out about the way that ideas about the solar system more developed, understanding how the goecnitic model of the Sun, even when wearing dark glasses. Note: and guidance (non-situatory) Pupils should find out about the way that ideas about the solar system more diversificantly by: comparing the time of diver different horse on the Earth thory that diversificantly by: comparing the time of diversificantly by: comparing the time of diversificantly by: comparing the time of diversificantly by: comparing the Earth Born bitterent likes and diversificantly by: comparing the time of diversificantly by: comparing the time of diversificant biterent likes and d	miliar approaches; look for different causal relationships in their data and identify evidence that refutes or s cct for every area of study. Statutory n Statutory n Statutory n Pupils shout recognise that living things have changed over time and that fossils provide recognise that living things produce of spring of the same kind recognise that living things produce of spring of the same kind recognise that living things produce of spring of the same kind recognise that living things produce of spring of the same kind recognise that living things produce of spring of the same kind recognise that living things produce of spring of the same kind recognise that living things produce of spring of the same kind recognise that living things use of the same kind recognise that living things use in the and recognise that living things the topic on rocks in year 3, pupils hould find out mos characteristics are possed from parents to their offspring, for instance by considering different breed pare cite the vioration in offspring over time can make animals mane is an other source is now it to a unive in particula fur on the arctic fax. Pupils might find out about the work of paleontologists such as Mary Anning and a re not expected to understand Notes and guidan Notes and	upports their ideas. They should use their results to identify when further tests and observations might be n theritance (Y6) theritance (Y6) to: information about living things that inhabited the Earth millions of years ago but normally offspring vary and are not identical to their parents ment in different ways and that adaptation may lead to evolution. te (non-statutory) to: c (non-statutory) c (non-statutory) to: c evolution thang on earth have changed over time. They should be introduced to the idea that s of dogs, and what happens when, for example, labradors are crassed with poodles. They should also to w Greins and Alfred Wallace developed their ideas on evolution. Note: At this stage, pupils out how Charles Darwin and Alfred Wallace developed their ideas on evolution. Note: At this stage, pupils we genes and channessones work. te (non-statutes) re dongted to their environment; comparing how some living things are adapted to survive in extreme they of soft adaptation, such as being on two feet rather than four, having a long or a short beek. They should a bain on two feet rather than four, having a long or a short beek.	eeded; recognise which secondary sources will be most useful t * associate tt * compare and give reasons for varia Building on their work in year 4, pupils sh example, switches, builds, buzzers and motors. They should to router, Pupils should be tought to take the necessary precau
• using test results to make predictions to set up further comparative and fair tests • reporting and presenting finding from enquires, including conclusions, causal relationships and explanata it with thing scientific evidence that has been used to support or refute ideas or arguments. <i>Nates and guidance (non-statutory)</i> Pupils in years 5 and 5 should use their science experiences to: explore ideas and raise different kinds of qui long to make then for, and whether to repeat them; choose the most appropriate equipment to make mere and justify their scientific ideas and should talk about how scientific ideas have developed over time. <i>Nates and guidance (non-statutory)</i> These opportunities for working scientifically should be provided across years 5 and 6 so that the expectation in the scientific ideas and should talk about how scientific ideas have developed over time. <i>Nates and guidance (non-statutory)</i> These opportunities for working scientifically should be provided across years 5 and 6 so that the expectation is the scientific ideas and should talk about how scientific ideas and should talk about how scientific ideas that unsupported objects all towards the tearth because of the force of gravity acting between the Earth hard the falling object • explain that unsupported objects all towards the Earth because of the force of gravity acting between the Earth hard the falling object. • identify the effects of air resistance, water resistance and friction, that at between moving surfaces a gravite effect. <i>Nature and guidance (non-statutory)</i> Pupils should explore folling objects and raise questions about the effects of air resistance in the scient scient ball was duing and moving objects, for example, by observing the effects of observing how different objects such as yacannee seeks foll. They should experience forces that make things begin to move, get plaster or low down. Pupils should explore the effects of oair resistance in orter to have a gravi	ens of and degree of trust in results, in oral and written forms such as displays and other presentations estions; select and plan the most appropriate type of scientific enquiry to use to answer scientific questions assurements and explain how to use it occurately. They should decide how to record data from a choice of fo ions in the programme of study can be met by the end of year 6. Pupils are not expected to cover each aspec Earth & Space (YS) Statutory requirements Pupils should be taught to: * describe the movement of the Barth, and other planets, relative to the Sun in the solar system * describe the movement of the Barth, and other planets, relative to the Sun in the solar system * describe the movement of the Barth, and other planets, relative to the Sun in the solar system * describe the son, Earth and Moon as approximately spherical bodies * use the idea of the Earth and Moon as approximately spherical bodies * use the idea of the Sun to note solar doce (non-statutory) Pupils should be introduced to a model of the Sun and Earth that enables them to explain day and ight and they appreter movement of the sun across the six. Moreau, Yeans, Earth, Mars, Jupiter, Satrun, Uranus and Nepture (Plato was reclassified as o'dwarf planet in 2006). They should understand that a ranker (non-statutory) Pupils should be to target moons and numerous smaller anely. Note: Pupils should be warned that it is not safe to look directly at the Sun, even when wearing dark glasses. Notes and guidance (non-statutory) Pupils should be town that ideas about the solar system more way to the helicentic model by considering the work solar system grow you to the helicentic model by considering the work af scientists such as Platemy, Alhazen and Copernicus. Pupils should be warned that the not safe to solar system grow way to the helicentic model by considering the work af scientists such as Platemy, Alhazen and Copernicus. Pupils might work scientifically by: comparing the time of dy at Serient Anet and the compari	Initiar approaches; look for different causal relationships in their data and identify evidence that refutes or s ext for every area of study.	upports their ideas. They should use their results to identify when further tests and observations might be n theritance (Y6) theritance (Y6) to: information about living things that inhabited the Earth millions of years ago but normally offspring vary and are not identical to their parents ment in different ways and that adaptation may lead to evolution. te (non-statutory) to: c (non-statutory) c (non-statutory) to: c evolution thang on earth have changed over time. They should be introduced to the idea that s of dogs, and what happens when, for example, labradors are crassed with poodles. They should also to w Greins and Alfred Wallace developed their ideas on evolution. Note: At this stage, pupils out how Charles Darwin and Alfred Wallace developed their ideas on evolution. Note: At this stage, pupils we genes and channessones work. te (non-statutes) re dongted to their environment; comparing how some living things are adapted to survive in extreme they of soft adaptation, such as being on two feet rather than four, having a long or a short beek. They should a bain on two feet rather than four, having a long or a short beek.	

Statutory requirements
Pupils should be taught to:
* identify how sounds are made, associating some of the with something vibrating
* recognise that Vibrations from sounds travel through a medium to the ear
* find patters between the volute of a sound and the strength of the vibrations that produced it
* find patters between the volute of a sound and the strength of the vibrations that produced it
* recognise that sounds get fainter as the distance from the sound source increases.
Notes and guidance (mon-statutory)
vewy sound is made through vibration in a range of different musical instruments from around the work; and find out how the pitch and
upils might work scientifically by: finding patterns in the sounds that are made by different objects such as soucepan lids of different sizes or elastic bonds of
warrety of different materials to investigate which provides the best insulation against sound. They could make and play their own instruments by using what
they have found out about pitch and volume.

Romans

* the Roman Empire and its impact on Britain Examples (non-statutory) This could include: * Julius Cacers's attempted invasion in 55-54 BC * the Roman Empire by AJ 42 and the power of its army * successful invasion by Cloudius and conquest, including Hodrian's Wall * firstsh resistance, for example, Boudca * of Britain: sites such as Caerwent and the impact of technology, culture and beliefs, including early Christianity.

might be found in the natural environment. They should make their own decisions about what observations to make, what measurements to use and how ful to research their ideas and begin to separate opinion from fact. They should use relevant scientific language and illustrations to discuss, communicate

Electricity

Statutory requirements
Pupils should be taught to:
iate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
raniations in how components function, incluing the brightness of bulbs, the loudness of buzzers and the on/off position of switches
* use recognised symbols when representing a simple circuit in a diagram.
Notes and guidance (non-struttory)
Bits should construct simple services incluint in the one structure of the one structure)
is should construct simple services incluint in a diagram using recognised symbols. Note: Pupils are expected to learn only about series circuits, not parallel
recautions for working safely with electricity. Pugis might work scientifically by: systemcircuit) and learn for a circuit; designing and making o set of traffic lights, a burglar alarm or some other useful circuit.

Victorians

study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066 Examples (non-statutory) * the changing power of momershe using case studies such as John, Anne and Victoria id history, such as crime and punishment from the Anglo-Saxons to the present or leisure and entertainment in the 20th Century Greek or Roman culture (art, architecture or literature) on latter periods in sitish history, including the present day * a significant turning point in British history, for example, the first railways or the Battle of Britain