		Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Asking Questions	Three to Four Year olds: - Understand 'why' questions, like: "Why	Pupils should be taught to:  asking simple questions and recognising that they can be answered in different ways  Pupils should be taught to:  asking simple questions and using different types of scientific enquires to answer them  setting up simple practical enquiries, comparative and fair tests  Pupils should be taught to:  additional performing simple tests.  grathering and recording data to help in answering questions  proforming simple tests.  grathering and recording data to help in answering questions  recording findings using imple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  Pupils should be taught to:  additional performing simple tests.  pupils should be taught to:  additional performing simple tests.  pupils should be taught to:  additional performing simple tests.  grathering recording, classifying and presented and in a variety of ways to help in answering questions.  recording findings using imple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  Pupils should be taught to:  additional performing simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  Pupils should be taught to:  additional performing simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  Pupils should be taught to:  additional performing simple scientific species on a scatter graphs, bar a scatter g	of scientific enquiries to answer ognising and controlling variables				
	Three to Four Year olds:  - Understand 'why' questions, like: "Why do you think the caterpillar got so fat?" - Talk about what they see, using a wide vocabulary Explore how things work.  Reception: - Learn new vocabulary Ask questions to find out more and to check what has been said to them Articulate their ideas and thoughts in wellformed sentences Describe events in some detail Use talk to work out problems and organise thinking and activities. Explain how things work and why they might happen.	caterpillar got so fat?" - Talk about what they see, using a wide vocabulary Explore how things work.  Reception: - Learn new vocabulary.	<ul><li>observing closely, using sim</li><li>performing simple tests</li></ul>		<ul> <li>making systematic and caref appropriate, taking accurate using a range of equipment, loggers</li> <li>gathering, recording, classify ways to help in answering querecording findings using sim</li> </ul>	e measurements using standard units, including thermometers and data ying and presenting data in a variety of uestions ple scientific language, drawings,	Pupils should be taught to:  taking measurements, using a range of scientific equipment, with increasing accuracy and precision, tarepeat readings when appropriate  recording data and results of increasing complexity us scientific diagrams and labels, classification keys, table scatter graphs, bar and line graphs	
		<ul><li>identifying and classifying</li><li>using their observations and</li></ul>	d ideas to suggest answers to	<ul> <li>identifying differences, simil scientific ideas and processe</li> <li>reporting on findings from e explanations, displays or pre using straightforward scientifications.</li> </ul>	es enquiries, including oral and written esentations of results and conclusions	Pupils should be taught to:  reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral a written forms such as displays and other presentation identifying scientific evidence that has been used to support or refute ideas or arguments.		
Working Scientifically	Evaluation	problems and organise thinking and activities. Explain how things work and why they			using results to draw simple conclusions, make predictions for new		using test results to make predictions to set up further comparative and fair tests	
Scientificany		- Use new vocabulary in different contexts.  ELG's: - Make comments about what they have heard and ask questions to clarify	Notes and guidance (non-statutory)  Pupils in years 1 and 2 should explore the world around them and raise their own questions. They should experience different types of scientific enquiries, including practical activities, and begin to recognise ways in which they might answer scientific questions. They should use simple features to compare objects, materials and living things and, with help, decide how to sort and group them, observe changes over time, and, with guidance, they should begin to notice patterns and relationships. They should ask people questions and use simple secondary sources to find answers. They should use simple measurements and equipment (for example, hand lenses, egg timers) to gather data, carry out simple tests, record simple data, and talk about what they have found out and how they found it out. With help, they should record and communicate their findings in a range of ways and begin to use simple scientific language. These opportunities for working scientifically should be provided across years 1 and 2 so that the expectations in the programme of study can be met by the end of year 2. Pupils are not expected to cover each aspect			ons about the world around them. They ons about the most appropriate type of iswer questions; recognise when a so decide how to set it up; talk about ifying; and use simple keys. They should atterns and relationships and decide They should help to make decisions whong to make them for and the type of they should learn how to use new copriately. They should collect data from ments, using notes, simple tables and sions about how to record and analyse k for changes, patterns, similarities and aw simple conclusions and answer identify new questions arising from the es within or beyond the data they have any what they have already done. They secondary sources might help them to	Notes and guidance (non-statutory) Pupils in years 5 and 6 should use their science experiences to: explore ideas and raise different kinds of questions; select and plan the most appropriate type of scientific enquiry to use to answer scientific questions; recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and why. They should use and develop keys and other information records to identify, classify and describe living things and materials, and identify patterns that might be found in the natural environment. They should make their own decisions about what observations to make, what measurements to use and how long to make them for, and whether to repeat them; choose the most appropriate equipment to make measurements and explain how to use it accurately. They should decide how to record data from a choice of familiar approaches; look for different causal relationships in their data and identify evidence that refutes or supports their ideas. They should use their results to identify when further tests and observations might be needed; recognise which secondary sources will be most useful to research their ideas and begin to separate opinion from fact. They should use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas and should talk about how scientific ideas have developed over time.	

Three to Four Year olds:  Make healthy choices about food, drink, activity and toothbrushing.  Begin to make sense of their own life story and family shistory.  Linderstand the key learned of their own life story and family shistory.  Linderstand the key learned of their own life story and family shistory.  Linderstand the key learned of their own life story and family shistory.  Linderstand the key learned of their own life story and family shistory.  Linderstand the key learned of the life of a plant and an animal.  Begin to understand the need to respect and care for the natural environment and all living things.  Reception:  Know and talk about the different factors that support their ownall health and wellbeing; regular physical activity healthy eating toothbrushing: sensible amounts of screen time having a good sleep routine - being a safe pedictifion humans.  Animals, including things.  Animals, including things with the sensible amounts of screen time having a good sleep routine - being a safe pedictifion have been any service and nurstitor for humans only and special face that the basic parts of the digestive system in humans and describe the town food, they gen untrinof from form what they est untrinof from the different factors that support their ownell have been a plant and an animal.  Begin to understand the service of the fluid the same than the service of the fluid the same than the same than the service of the fluid the same than the service of the fluid the same than the service of the fluid the same than the strain and wellbeing regular physical activity healthy seating toothbrushing: sensible amounts of screen time baving ago od sleep routine - being a safe performance in market the order of the human body and say which part of the human	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 diffestyle on the way their bodies
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support their overall health and wellbeing: - regular physical activity health and wellbeing: - regular physical activity healthy eating - toothbrushing - sensible amounts of 'screen time' having a good sleep routine - being a safe pedestrian  Animals, including humans  Animals, including dressing, humans  Animals, including humans  Animals, including dressing, humans  Animals, including humans  Animals, including dressing, humans  Animals, including humans  Animals, includin	·
health and wellbeing: - regular physical activity - healthy eating - toothbrushing - sensible amounts of 'screen time' having a good sleep routine - being a safe pedestrian  Animals, including humans  humans  humans  health and wellbeing: - regular physical activity - healthy eating - toothbrushing - sensible amounts of 'screen time' having a good sleep routine - being a safe pedestrian  Notes and guidance (non- statutory)  Pupils should use the local environment throughout the year to explore and answer questions hygiene and personal needs, including dressing,  health and wellbeing: - regular physical activity - healthy eating - toothbrushing - sensible amounts of 'screen time' having a good sleep routine - being a safe pedestrian  Notes and guidance (non- statutory)  Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should not be expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: growth in animals. They should also be introduced to the processes of reproduction and growth in animals. The focus at this stage should be on questions that help pupils tor comparing their movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their to explore and answer questions and herbivores, and suggesting reasons for differences; finding out what damages teeth and how to look after them. They might draw and discuss their ideas about the digestive system and compare them with models or image with models or image interstine and explore questions that help them to understand their special functions. Pupils might work scientifically by: comparing heir movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their to expected to understand how reproducti	animals, including
regular physical activity healthy eating - toothbrushing - sensible amounts of 'screen time' having a good sleep routine - being a safe pedestrian  Animals, including humans  PLG's  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Animals including humans  Animals including humans  Animals including humans  Regular physical activity - having a good sleep routine - being a safe pedestrian  They should also be introduced to the processes of reproduction and growth in animals. The focus at this stage should be on questions that help pupils to recognise growth; they should not be expected to understand how to public stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  Animals in their habitat.  They should also be introduced to the poacic parts of the processes of reproduction and growth in animals. The focus at this stage should be on questions that help pupils to recognise growth; they should not be expected to understand how to production occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  Animals, including dressing, humans  Animals, including humans  Animals, including hysicidentifying and grouping animals with and without skeletons and observing and comparing their movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their pets) and decide ways of grouping and compare them with and without skeletons and observing and comparing their movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their pets) and decide ways of grouping and comparing their movement; exploring ideas about what would not be expected to understand how to poke and grouping animals with and wit	•
healthy eating - toothbrushing - sensible amounts of 'screen time' having a good sleep routine - being a safe pedestrian  Animals, including humans  Animals including humans  healthy eating - toothbrushing - sensible amounts of 'screen time' having a good sleep routine - being a safe pedestrian  ELG's  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Mealthy eating - toothbrushing - sensible amounts of 'screen time' - body is associated with each sense.  Notes and guidance (non-statutory)  Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat.  They should understand how to body is associated with body is associated with each sense.  Notes and guidance (non-statutory)  Pupils manage sheit movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their pets) and decide ways of grouping animals with and without skeletons and observing and comparing their movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their movement; exploring ideas about what would not be expected to understand how to different sensible and bu	humans.
toothbrushing - sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian  Animals, including humans  LGG's  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hygiene and personal needs, including dressing,  Manage their own basic hout the body is associated with the body is associated with the lep pupils to recognise growth; they should not be expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  Manage their own basic hat help pupils to recognise growth; they should not be expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  Manage their own basic that hel	Notes and guidance (non-
Animals, including humans  Animals, including their movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their pets) and decide ways of grouping them according to what they eat. They might research different food groups and how they keep us healthy and  Animals, including their movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their pets) and decide ways of grouping them according to what they eat. They might research different food groups and how they keep us healthy and	statutory)
having a good sleep routine - being a safe pedestrian  Animals, including humans  having a good sleep routine - being a safe pedestrian  Animals, including humans  having a good sleep routine - being a safe pedestrian  BLG's  Motes and guidance (nonstatutory)  Pupils should use the local environment throughout the year to explore and answer questions hygiene and personal needs, including dressing,  They should understand how to  Papils should use the local environment throughout the year to each sense.  Sthat help pupils to recognise growth; they should not be expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should understand how to  Pupils should use the local environment throughout the year to each sense.  Sthat help pupils to recognise growth; they should not be expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should understand how to  Pupils should use the local environment throughout the year to expected to understand how to production occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should understand how to	Pupils should build on their
Animals, including humans  Notes and guidance (non-statutory) Pupils should use the local environment throughout the year to explore and personal needs, including dressing,  Toutine - being a safe pedestrian  Notes and guidance (non-statutory) Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should understand how to egg, chick, chicken; egg,  Notes and guidance (non-statutory) Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should understand how to egg, chick, chicken; egg,  Notes and guidance (non-statutory) Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should understand how to egg, chick, chicken; egg,  Notes and guidance (non-statutory) Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should not be expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should understand how to expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should understand how to expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: might research different food groups and how they keep us healthy and with models or image.	learning from years 3 and 4
Animals, including humans  Pedestrian  Pupils should use the local environment throughout the year to explore and personal needs, including dressing,  Pedestrian  Statutory)  Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should understand how to explore and personal needs, including dressing,  Pedestrian  Statutory)  Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should understand how to expected to understand how reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  might compare and contrast the diets of different animals (including their pets) and decide ways of grouping them according to what they eat. They might research different food groups and how they keep us healthy and	about the main body parts
Animals, including humans  ELG's  Manage their own basic hygiene and personal needs, including dressing,  Name of different animals (including their stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should use the local reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should use the local reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should use the local reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should use the local reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should use the local reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should use the local reproduction occurs. Science – key stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  They should understand how to	and internal organs (skeletal,
humans  ELG's  Manage their own basic hygiene and personal needs, including dressing,  Penvironment throughout the year to explore and answer questions about animals in their habitat. They should understand how to  Stages 1 and 2 12 Notes and guidance (non-statutory) The following examples might be used: egg, chick, chicken; egg,  Pets) and decide ways of grouping them according to what they eat. They might research different food groups and how they keep us healthy and  Pets) and decide ways of grouping them according to what they eat. They might research different food groups and how they keep us healthy and	muscular and digestive system) to explore and
Manage their own basic to explore and answer questions about animals in their habitat. They should understand how to regg, chick, chicken; egg, and how they keep us healthy and research different food groups and how they keep us healthy and research diff	answer questions that help
hygiene and personal needs, including dressing, needs, including dressing, needs including dressing in their habitat. They should understand how to needs including dressing in their habitat. They should understand how to needs including dressing in their habitat. They should understand how to needs including dressing in their habitat. They should understand how to needs including dressing in their habitat. They should understand how to needs including dressing in their habitat. They should understand how to needs in their habitat. They should understand how to needs in their habitat. They should understand how to need to need the needs in their habitat. They should understand how to need to need the need the need to need the need to need the need the need to need the	them to understand how the
needs, including dressing, They should understand how to egg, chick, chicken; egg, and how they keep us healthy and	circulatory system enables
11.67 Should discontain to 11.67 Should disconta	the body to function. Pupils
	should learn how to keep
understanding the their local environment and the tadpole, frog; lamb, sheep. out.	their bodies healthy and how
importance of healthy need to return them safely after Growing into adults can include	their bodies might be
food choices. study. Pupils should become reference to baby, toddler, child,	damaged – including how
familiar with the common names teenager, adult.	some drugs and other
of some fish, amphibians, reptiles, Pupils might work scientifically	substances can be harmful to
birds and mammals, including by: observing, through video or	the human body.
those that are kept as pets. Pupils first-hand observation and	Pupils might work
should have plenty of measurement, how different	scientifically by: exploring the
opportunities to learn the names animals, including humans, grow;	work of scientists and
of the main body parts (including asking questions about what	scientific research about the
head, neck, arms, elbows, legs, things animals need for survival	relationship between diet,
knees, face, ears, eyes, hair, and what humans need to stay	exercise, drugs, lifestyle and
mouth, teeth) through games, healthy; and suggesting ways to	health.
actions, songs and rhymes. <b>Pupils</b> find answers to their questions	
might work scientifically by: using	
their observations to compare and	
contrast animals at first hand or	İ
through videos and photographs,	
describing how they identify and group them; grouping animals	
according to what they eat; and	
using their senses to compare	
different textures, sounds and	
smells.	

### Science Progression of Skills and Curriculum Overview (September 2025)

# Three and Four year olds: - Plant seeds and care for growing plants.

### - Understand the key features of the life cycle of a plant and an animal.

#### Reception:

- Explore the natural world around them.

### ELG's:

 Explore the natural world around them, making observations and drawing pictures of animals and plants.

### **Plants**

### Pupils should be taught to:

- 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.

### Notes and guidance (nonstatutory)

statutory)
Pupils should use the local
environment throughout the year
to explore and answer questions
about plants growing in their
habitat. Where possible, they
should observe the growth of
flowers and vegetables that they
have planted. They should become
familiar with common names of
flowers, examples of deciduous
and evergreen trees, and plant
structures (including leaves,
flowers (blossom), petals, fruit,
roots, bulb, seed, trunk, branches,
stem).

Pupils might work scientifically by: observing closely, perhaps using magnifying glasses, and comparing and contrasting familiar plants; describing how they were able to identify and group them, and drawing diagrams showing the parts of different plants including trees. Pupils might keep records of how plants have changed over time, for example the leaves falling off trees and buds opening; and compare and contrast what they have found out about different plants.

### Pupils should be taught to:

- 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.

### Notes and guidance (nonstatutory)

Pupils should use the local environment throughout the year to observe how different plants grow. Pupils should be introduced to the requirements of plants for germination, growth and survival, as well as to the processes of reproduction and growth in plants. Note: Seeds and bulbs need water to grow but most do not need light; seeds and bulbs have a store of food inside them.

Pupils might work scientifically by: observing and recording, with some accuracy, the growth of a variety of plants as they change over time from a seed or bulb, or observing similar plants at different stages of growth; setting up a comparative test to show that plants need light and water to stay healthy.

### Pupils should be taught to:

- 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.

Notes and guidance (non-statutory)
Pupils should be introduced to the

relationship between structure and function: the idea that every part has a job to do. They should explore questions that focus on the role of the roots and stem in nutrition and support, leaves for nutrition and flowers for reproduction. Note: Pupils can be introduced to the idea that plants can make their own food, but at this stage they do not need to understand how this happens. Pupils might work scientifically by: comparing the effect of different factors on plant growth, for example, the amount of light, the amount of fertiliser; discovering how seeds are formed by observing the different stages of plant life cycles over a period of time; looking for patterns in the structure of fruits that relate to how the seeds are dispersed. They might observe how water is transported in plants, for example, by putting cut, white carnations. Pupils should be introduced to the relationship between structure and function: the idea that every part has a job to do. They should explore questions that focus on the role of the roots and stem in nutrition and support, leaves for nutrition and flowers for reproduction. Note: Pupils can be introduced to the idea that plants can make their own food, but at this stage they do not need to understand how this happens.

Pupils might work scientifically by: comparing the effect of different factors on plant growth, for example, the amount of light, the amount of

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			fertiliser; discovering how seeds are			
			formed by observing the different			
			stages of plant life cycles over a period			
			of time; looking for patterns in the			
			structure of fruits that relate to how			
			the seeds are dispersed. They might			
			observe how water is transported in			
			plants, for example, by putting cut,			
			white carnations			

### Science Progression of Skills and Curriculum Overview (September 2025)

### Reception:

- Explore the natural world around them.
- Describe what they see, hear and feel while they are outside.
- Recognise some environments that are different to the one in which they live.

#### ELG's:

- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.

## Living Things and their Habitats

### 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
- identify and name a variety of plants and animals in their habitats, including microhabitats
- 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

### Notes and guidance (nonstatutory)

Pupils should be introduced to the idea that all living things have certain characteristics that are essential for keeping them alive and healthy. They should raise and answer questions that help them to become familiar with the life processes that are common to all living things. Pupils should be introduced to the terms 'habitat' (a natural environment or home of a variety of plants and animals) and 'micro-habitat' (a very small habitat, for example for woodlice under stones, logs or leaf litter). They should raise and answer questions about the local environment that help them to identify and study a variety of plants and animals within their habitat and observe how living things depend on each other, for example, plants serving as a source of food and shelter for animals. Pupils should compare animals in familiar habitats with animals found in less familiar habitats, for example, on the seashore, in woodland, in the ocean, in the rainforest. Pupils might work scientifically

by: sorting and classifying things

### Pupils should be taught to:

- recognise that living things can be grouped in a variety of ways
- explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- recognise that environments can change and that this can sometimes pose dangers to living things.

Notes and guidance (non-

**statutory)** Pupils should use the local environment throughout the year to raise and answer questions that help them to identify and study plants and animals in their habitat. They should identify how the habitat changes throughout the year. Pupils should explore possible ways of grouping a wide selection of living things that include animals and flowering plants and nonflowering plants. Pupils could begin to put vertebrate animals into groups such as fish, amphibians, reptiles, birds, and mammals; and invertebrates into snails and slugs, worms, spiders, and insects. Note: Plants can be grouped into categories such as flowering plants (including grasses) and nonflowering plants, such as ferns and mosses. Pupils should explore examples of human impact (both positive and negative) on environments, for example, the positive effects of nature reserves, ecologically planned parks, or garden ponds, and the negative effects of population and development, litter or deforestation. Pupils might work scientifically by:

Pupils might work scientifically by: using and making simple guides or keys to explore and identify local plants and animals; making a guide to local living things; raising and answering questions based on their observations of animals and what they have found out about other animals that they have researched.

### Pupils should be taught to:

- describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- describe the life process of reproduction in some plants and animals.

### Notes and guidance (nonstatutory)

Pupils should study and raise questions about their local environment throughout the year. They should observe life-cycle changes in a variety of living things, for example, plants in the vegetable garden or flower border, and animals in the local environment. They should find out about the work of naturalists and animal behaviourists, for example. David Attenborough and Jane Goodall. Pupils should find out about different types of reproduction, including sexual and asexual reproduction in plants, and sexual reproduction in animals.

### Pupils might work scientifically

observing and comparing the life cycles of plants and animals in their local environment with other plants and animals around the world (in the rainforest, in the oceans, in desert areas and in prehistoric times), asking pertinent questions and suggesting reasons for similarities and differences. They might try to grow new plants from different parts of the parent plant, for example, seeds, stem and root cuttings, tubers, bulbs. They might observe changes in an animal over a period of time (for example, by hatching and rearing chicks), comparing how different animals reproduce and grow.

### Pupils should be taught to:

- describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals
- give reasons for classifying plants and animals based on specific characteristics

### Notes and guidance (nonstatutory)

Pupils should build on their learning about grouping living things in year 4 by looking at the classification system in more detail. They should be introduced to the idea that broad groupings, such as micro-organisms, plants and animals can be subdivided. Through direct observations where possible, they should classify animals into commonly found invertebrates (such as insects, spiders, snails, worms) and vertebrates (fish, amphibians, reptiles, birds and mammals). They should discuss reasons why living things are placed in one group and not another. Pupils might find out about the significance of the work of scientists such as Carl Linnaeus, a pioneer of classification.

## Pupils might work scientifically by:

using classification systems and keys to identify some animals and plants in the immediate environment. They could research unfamiliar animals and plants from a broad range of other habitats and decide where they belong in the classification system.

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		according to whether they are				
		living, dead or were never alive,				
		and recording their findings using				
		charts. They should describe how				
		they decided where to place				
		things, exploring questions for				
		example: 'Is a flame alive? Is a				
		deciduous tree dead in winter?'				
		and talk about ways of answering				
		their questions. They could				
		construct a simple food chain that				
		includes humans (e.g. grass, cow,				
		human). They could describe the				
		conditions in different habitats				
		and micro-habitats (under log, on				
		stony path, under bushes) and find				
		out how the conditions affect the				
		number and type(s) of plants and				
		animals that live there.				

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Three and Four Year Olds:	Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:			
	- Use all their senses in	<ul> <li>distinguish between an</li> </ul>	<ul> <li>identify and compare</li> </ul>	<ul> <li>compare and group</li> </ul>			
	hands-on exploration of	object and the material	the suitability of a	together different kinds of			
	natural materials.	from which it is made	variety of everyday	rocks on the basis of their			
	- Explore collections of	<ul> <li>identify and name a</li> </ul>	materials, including	appearance and simple			
	materials with similar	variety of everyday	wood, metal, plastic,	physical properties			
	and/or different	materials, including	glass, brick, rock, paper	<ul> <li>describe in simple terms</li> </ul>			
	properties.	wood, plastic, glass,	and cardboard for	how fossils are formed			
	- Talk about the	metal, water, and rock	particular uses	when things that have lived			
	differences between	describe the simple	find out how the shapes	are trapped within rock			
	materials and changes they notice.	physical properties of a	of solid objects made	recognise that soils are			
	they notice.	variety of everyday	from some materials	made from rocks and			
		materials	can be changed by squashing, bending,	organic matter.  Notes and guidance (non-statutory)			
		compare and group	twisting and stretching.	Linked with work in geography, pupils			
		together a variety of everyday materials on	Notes and guidance (non-	should explore different kinds of rocks			
		the basis of their simple	statutory)	and soils, including those in the local			
		physical properties.	Pupils should identify and discuss	environment.			
		Notes and guidance (non-	the uses of different everyday	Pupils might work scientifically by:			
		statutory)	materials so that they become	observing rocks, including those used			
		Pupils should explore, name,	familiar with how some materials	in buildings and gravestones, and			
		discuss and raise and answer	are used for more than one thing	exploring how and why they might			
		questions about everyday	(metal can be used for coins, cans,	have changed over time; using a hand			
		materials so that they become	cars and table legs; wood can be	lens or microscope to help them to			
		familiar with the names of	used for matches, floors, and	identify and classify rocks according to			
Materials		materials and properties such as:	telegraph poles) or different	whether they have grains or crystals,			
		hard/soft; stretchy/stiff;	materials are used for the same	and whether they have fossils in them.			
		shiny/dull; rough/smooth;	thing (spoons can be made from	Pupils might research and discuss the			
		bendy/not bendy; waterproof/not	plastic, wood, metal, but not	different kinds of living things whose			
		waterproof; absorbent/not	normally from glass). They should	fossils are found in sedimentary rock			
		absorbent; opaque/transparent.	think about the properties of	and explore how fossils are formed.			
		Pupils should explore and	materials that make them suitable	Pupils could explore different soils and			
		experiment with a wide variety of	or unsuitable for particular	identify similarities and differences			
		materials, not only those listed in	purposes and they should be encouraged to think about	between them and investigate what			
		the programme of study, but	unusual and creative uses for	happens when rocks are rubbed together or what changes occur when			
		including for example: brick,	everyday materials. Pupils might	they are in water. They can raise and			
		paper, fabrics, elastic, foil.  Pupils might work scientifically	find out about people who have	answer questions about the way soils			
		by: performing simple tests to	developed useful new materials,	are formed.			
		explore questions, for example:	for example John Dunlop, Charles	are formed.			
		'What is the best material for an	Macintosh or John McAdam.				
		umbrella?for lining a dog	Pupils might work scientifically				
		basket?for curtains?for a	by: comparing the uses of				
		bookshelf?for a gymnast's	everyday materials in and around				
		leotard?'	the school with materials found in				
			other places (at home, the journey				
			to school, on visits, and in stories,				
			rhymes and songs); observing				
			closely, identifying and classifying				
			the uses of different materials,				
			and recording their observations.				

	ELG's:				Pupils should be taught to:
	- Understand some				compare and group
	important processes and				together everyday
	changes in the natural				materials on the basis
	world around them,				of their properties,
	including the seasons and				
					including their
	changing states of matter.				hardness, solubility,
					transparency,
					conductivity (electrical
					and thermal), and
					response to magnets
					<ul> <li>know that some</li> </ul>
					materials will dissolve
					in liquid to form a
					solution, and describe
					how to recover a
					substance from a
					solution
					use knowledge of
					solids, liquids and gases
					to decide how mixtures
					might be separated,
					including through
					filtering, sieving and
					evaporating
					give reasons, based on
					evidence from
					comparative and fair
					tests, for the particular
Duamantia a and					uses of everyday
Properties and					materials, including
Changing					metals, wood and
					plastic
Materials					demonstrate that
					dissolving, mixing and
					changes of state are
					reversible changes
					explain that some
					changes result in the
					formation of new
					materials, and that this
					kind of change is not
					usually reversible,
					including changes
					associated with burning
					and the action of acid
					on bicarbonate of soda.
					Notes and guidance (non-
					statutory)
					Pupils should build a more
					systematic understanding of
					materials by exploring and
					comparing the properties of a
					broad range of materials,
					including relating these to what
					they learnt about magnetism in
					year 3 and about electricity in
					year 4. They should explore
					reversible changes, including,
					evaporating, filtering, sieving,
					melting and dissolving,
					recognising that melting and
					dissolving are different processes.
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Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					Pupils should explore changes	
					that are difficult to reverse, for	
					example, burning, rusting and	
					other reactions, for example,	
					vinegar with bicarbonate of soda.  They should find out about how	
					chemists create new materials, for	
					example, Spencer Silver, who	
					invented the glue for sticky notes	
					or Ruth Benerito, who invented	
					wrinkle-free cotton. Note: Pupils	
					are not required to make	
					quantitative measurements about	
					conductivity and insulation at this	
					stage. It is sufficient for them to	
					observe that some conductors will	
					produce a brighter bulb in a circuit than others and that some	
					materials will feel hotter than	
					others when a heat source is	
					placed against them. Safety	
					guidelines should be followed	
					when burning materials.	
					Pupils might work scientifically	
					<b>by:</b> carrying out tests to answer	
					questions, for example, 'Which	
					materials would be the most	
					effective for making a warm	
					jacket, for wrapping ice cream to	
					stop it melting, or for making blackout curtains?' They might	
					compare materials in order to	
					make a switch in a circuit. They	
					could observe and compare the	
					changes that take place, for	
					example, when burning different	
					materials or baking bread or	
					cakes. They might research and	
					discuss how chemical changes	
					have an impact on our lives, for	
					example, cooking, and discuss the	
					creative use of new materials such	
					as polymers, super-sticky and	
					super-thin materials.	

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Seasonal Changes	Reception: - Understand the effect of changing seasons on the natural world around them.  ELG's - Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.	Pupils should be taught to:  observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies  Notes and guidance (nonstatutory) Pupils should observe and talk about changes in the weather and the seasons. Note: Pupils should be warned that it is not safe to look directly at the Sun, even when wearing dark glasses. Pupils might work scientifically by: making tables and charts about the weather; and making displays of what happens in the world around them, including day length, as the seasons change.					

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Reception Year 1	Year 2		Year 4	Year 5	
Light Year 1	Year 2	Pupils should be taught to:  • recognise that they need light in order to see things and that dark is the absence of light  • notice that light is reflected from surfaces  • recognise that light from the sun can be dangerous and that there are ways to protect their eyes  • recognise that shadows are formed when the light from a light source is blocked by an opaque object  • find patterns in the way that the size of shadows change.  Notes and guidance (non-statutory) Pupils should explore what happens when light reflects off a mirror or other reflective surfaces, including playing mirror games to help them to answer questions about how light behaves. They should think about why it is important to protect their eyes from bright lights. They should look for, and measure, shadows, and find out how they are formed and what might cause the shadows to change. Note: Pupils should be warned that it is not safe to look directly at the Sun, even when wearing dark glasses.  Pupils might work scientifically by: looking for patterns in what happens to shadows when the light source moves or the distance between the light source and the object changes.	Year 4	Year 5	Pupils should be taught to:     recognise that light appears to travel in straight lines     use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye     explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes     use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.  Notes and guidance (nonstatutory) Pupils should build on the work on light in year 3, exploring the way that light behaves, including light sources, reflection and shadows. They should talk about what happens and make predictions. Pupils might work scientifically by: deciding where to place rearview mirrors on cars; designing and making a periscope and using the idea that light appears to travel in straight lines to explain how it works. They might investigate the relationship between light sources, objects and shadows by using shadow puppets. They could extend their experience of light by looking a range of phenomena including rainbows, colours on soap bubbles, objects looking bent in water and coloured filters (they do not need to explain

Pupils should be taught to:  I identify how sounds are made, associating some of them with something vibrating  Procession in the procession of them with something vibrating or recognise that vibrations from sounds travel through a medium to the ear  Indignatures of the object that produced it the pitch of a sound and features of the object that produced it of the pitch of a sound and features of the object that produced it to the pitch of the pitch of a sound and the strength of the vibrations that produced it it or recognise that sounds get fainter as the distance from the sound source increases.  Notes and guidance (non-statutory) Pupils should explore and identify the way sound is made through vibration in a range of		Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
around the world; and find out how the pitch and volume of sounds can be changed in a variety of ways.  Pupils might work scientifically by: finding patterns in the sounds that are made by different objects such as saucepan ldis of different thicknesses. They might make earmuffs from a variety of different	Sound	Reception	Year 1	Year 2	Year 3	identify how sounds are made, associating some of them with something vibrating  recognise that vibrations from sounds travel through a medium to the ear  find patterns between the pitch of a sound and features of the object that produced it  find patterns between the volume 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 (nonstatutory) Pupils should explore and identify the way sound is made through vibration in a range of different musical instruments from around the world; and find out how the pitch and volume of sounds can be changed in a variety of ways.  Pupils might work scientifically by: finding patterns in the sounds that are made by different objects such as saucepan lids of different ticknesses. They might make	Year 5	Year 6

R	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	nd Four Year Olds:			Pupils should be taught to:		Pupils should be taught to:	
•	e and talk about			<ul> <li>compare how things move</li> </ul>		<ul> <li>explain that</li> </ul>	
	t forces they can			on different surfaces		unsupported objects	
feel.				<ul> <li>notice that some forces</li> </ul>		fall towards the Earth	
				need contact between two		because of the force of	
				objects, but magnetic forces		gravity acting between	
				can act at a distance		the Earth and the falling	
				observe how magnets		object	
				attract or repel each other		<ul> <li>identify the effects of</li> </ul>	
				and attract some materials		air resistance, water	
				and not others		resistance and friction,	
				compare and group		that act between	
				together a variety of		moving surfaces	
				everyday materials on the		<ul> <li>recognise that some</li> </ul>	
				basis of whether they are		mechanisms, including	
				attracted to a magnet, and		levers, pulleys and	
				identify some magnetic		gears, allow a smaller	
				materials		force to have a greater	
				describe magnets as having		effect.	
				two poles		Notes and guidance (non-	
				predict whether two		statutory)	
				magnets will attract or repel		Pupils should explore falling	
				each other, depending on		objects and raise questions about	
				which poles are facing.		the effects of air resistance. They	
				Notes and guidance (non-statutory)		should explore the effects of air	
				Pupils should observe that magnetic		resistance by observing how	
				forces can act without direct contact,		different objects such as	
				unlike most forces, where direct		parachutes and sycamore seeds	
Forces and				contact is necessary (for example,		fall. They should experience forces	
Magnets				opening a door, pushing a swing).		that make things begin to move,	
iviagnets				They should explore the behaviour		get faster or slow down. Pupils	
				and everyday uses of different		should explore the effects of	
				magnets (for example, bar, ring,		friction on movement and find out	
				button and horseshoe). <b>Pupils might</b>		how it slows or stops moving	
				work scientifically by:		objects, for example, by observing	
				comparing how different things move		the effects of a brake on a bicycle	
						wheel. Pupils should explore the	
				and grouping them; raising questions		effects of levers, pulleys and	
				and carrying out tests to find out how		simple machines on movement.	
				far things move on different surfaces		Pupils might find out how	
				and gathering and recording data to find answers their questions; exploring		scientists, for example, Galileo	
						Galilei and Isaac Newton helped	
				the strengths of different magnets and		to develop the theory of	
				finding a fair way to compare them;		gravitation.	
				sorting materials into those that are		Pupils might work scientifically	
				magnetic and those that are not;		by:	
				looking for patterns in the way that		exploring falling paper cones or	
				magnets behave in relation to each		cup-cake cases, and designing and	
				other and what might affect this, for		making a variety of parachutes	
				example, the strength of the magnet		and carrying out fair tests to	
				or which pole faces another;			
				identifying how these properties make		determine which designs are the	
				magnets useful in everyday items and		most effective. They might	
				suggesting creative uses for different		explore resistance in water by	
				magnets.		making and testing boats of	
						different shapes. They might	
						design and make products that	
						use levers, pulleys, gears and/or	
				1		springs and explore their effects.	

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						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 Moon	
						relative to the Earth	
						<ul> <li>describe the Sun, Earth</li> </ul>	
						and Moon as	
						approximately spherical	
						bodies	
						use the idea of the	
						Earth's rotation to	
						explain day and night	
						and the apparent movement of the sun	
						across the sky.	
						Notes and guidance (non-	
						statutory) Pupils should be	
						introduced to a model of the Sun	
						and Earth that enables them to	
						explain day and night. Pupils	
						should learn that the Sun is a star	
						at the centre of our solar system	
						and that it has eight planets:	
						Mercury, Venus, Earth, Mars,	
						Jupiter, Saturn, Uranus and Neptune (Pluto was reclassified as	
						a 'dwarf planet' in 2006). They	
orth and Space						should understand that a moon is	
ireir and opace						a celestial body that orbits a	
						planet (Earth has one moon;	
						Jupiter has four large moons and	
						numerous smaller ones). Note:	
						Pupils should be warned that it is	
						not safe to look directly at the	
						Sun, even when wearing dark	
						glasses.	
						Pupils should find out about the	
						way that ideas about the solar system have developed,	
						understanding how the geocentric	
						model of the solar system gave	
						way to the heliocentric model by	
						considering the work of scientists	
						such as Ptolemy, Alhazen and	
						Copernicus. Pupils might work	
						scientifically by:	
						comparing the time of day at	
						different places on the Earth	
						through internet links and direct	
						communication; creating simple	
						models of the solar system;	
						constructing simple shadow clocks and sundials, calibrated to show	
						midday and the start and end of	
						the school day; finding out why	
						some people think that structures	
						such as Stonehenge might have	
						been used as astronomical clocks.	

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	ELG's:				Pupils should be taught to:		
	- Understand some				<ul> <li>compare and group</li> </ul>		
	important processes and				materials together,		
	changes in the natural				according to whether		
	world around them,				they are solids, liquids or		
	including the seasons and				gases		
	changing states of matter.				observe that some		
					materials change state		
					when they are heated or		
					cooled, and measure or		
					research the		
					temperature at which		
					this happens in degrees		
					Celsius (°C)		
					identify the part played		
					by evaporation and		
					condensation in the		
					water cycle and associate		
					the rate of evaporation		
					with temperature.		
					Notes and guidance (non-		
					statutory) Pupils should explore a		
					variety of everyday materials and		
					develop simple descriptions of the		
					states of matter (solids hold their		
					shape; liquids form a pool not a		
					pile; gases escape from an unsealed		
					container). Pupils should observe		
tates of Matter					water as a solid, a liquid and a gas		
					and should note the changes to		
					water when it is heated or cooled.		
					Note: Teachers should avoid using		
					materials where heating is		
					associated with chemical change,		
					for example, through baking or		
					burning.		
					Pupils might work scientifically by:		
					grouping and classifying a variety of		
					different materials; exploring the		
					effect of temperature on substances such as chocolate,		
					butter, cream (for example, to		
					make food such as chocolate crispy		
					cakes and ice-cream for a party).		
					They could research the		
					temperature at which materials		
					change state, for example, when		
					iron melts or when oxygen		
					condenses into a liquid. They might		
					observe and record evaporation		
					over a period of time, for example,		
					a puddle in the playground or		
					washing on a line, and investigate		
					the effect of temperature on		
					washing drying or snowmen		
					melting.		

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							Pupils should be taught to:
							<ul> <li>recognise that</li> </ul>
							living things have
							changed over time
							and that fossils
							provide
							information about
							living things that
							inhabited the Earth
							millions of years
							ago ● recognise that
							living things
							produce offspring
							of the same kind,
							but normally
							offspring vary and
							are not identical to
							their parents
							identify how
							animals and plants
							are adapted to suit
							their environment
							in different ways and that
							adaptation may
							lead to evolution.
							Notes and guidance (non-
							statutory)
							Building on what they learned
Evolution and							about fossils in the topic on
Inheritance							rocks in year 3, pupils should
							find out more about how
							living things on earth have
							changed over time. They
							should be introduced to the idea that characteristics are
							passed from parents to their
							offspring, for instance by
							considering different breeds
							of dogs, and what happens
							when, for example, labradors
							are crossed with poodles.
							They should also appreciate
							that variation in offspring
							over time can make animals
							more or less able to survive in
							particular environments, for example, by exploring how
							giraffes' necks got longer, or
							the development of insulating
							fur on the arctic fox. Pupils
							might find out about the
							work of palaeontologists such
							as Mary Anning and about
							how Charles Darwin and
							Alfred Wallace developed
							their ideas on evolution.
							Note: At this stage, pupils are
							not expected to understand how genes and chromosomes
							work.
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Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						Pupils might work
						scientifically by:
						observing and raising
						questions about local animals
						and how they are adapted to
						their environment;
						comparing how some living
						things are adapted to survive
						in extreme conditions, for
						example, cactuses, penguins
						and camels. They might
						analyse the advantages and
						disadvantages of specific
						adaptations, such as being on
						two feet rather than four,
						having a long or a short beak,
						having gills or lungs, tendrils
						on climbing plants, brightly
						coloured and scented
						flowers.

_	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	•				Pupils should be taught to:		Pupils should be taught to:
					identify common		associate the
					appliances that run on		brightness of a
					I		lamp or the volum
					electricity		of a buzzer with
					construct a simple series		the number and
					electrical circuit,		
					identifying and naming its		voltage of cells used in the circuit
					basic parts, including		
					cells, wires, bulbs,		compare and giv
					switches and buzzers		reasons for
					identify whether or not a		variations in how
					lamp will light in a simple		components
					series circuit, based on		function, includin
					whether or not the lamp		the brightness of
					is part of a complete loop		bulbs, the loudne
					with a battery		of buzzers and th
					recognise that a switch		on/off position of
					opens and closes a circuit		switches
					and associate this with		use recognised
					whether or not a lamp		symbols when
					lights in a simple series		representing a
					circuit		simple circuit in a
					recognise some common		diagram.
					conductors and		Notes and guidance (non-
					insulators, and associate		statutory) Building on their
					metals with being good		work in year 4, pupils should
Electricity					conductors.		construct simple series
					Notes and guidance (non-		circuits, to help them to
					statutory) Pupils should construct		answer questions about wh
					simple series circuits, trying		happens when they try
					different components, for example,		different components, for
					bulbs, buzzers and motors, and		example, switches, bulbs,
					including switches, and use their		buzzers and motors. They
					circuits to create simple devices.		should learn how to
					Pupils should draw the circuit as a		represent a simple circuit ir
					pictorial representation, not		diagram using recognised
					necessarily using conventional		symbols. Note: Pupils are
					circuit symbols at this stage; these		expected to learn only abou
					will be introduced in year 6. Note:		series circuits, not parallel
					Pupils might use the terms current		circuits. Pupils should be
					and voltage, but these should not		taught to take the necessar
					be introduced or defined formally		precautions for working
					at this stage. Pupils should be		safely with electricity.
					taught about precautions for		Pupils might work
					working safely with electricity.		scientifically by:
					Pupils might work scientifically by:		systematically identifying th
					observing patterns, for example,		effect of changing one
					that bulbs get brighter if more cells		component at a time in a
					are added, that metals tend to be		circuit; designing and makin
					conductors of electricity, and that		a set of traffic lights, a burgl
					some materials can and some		alarm or some other useful
					cannot be used to connect across a		circuit.
					gap in a circuit.		