



Science

Key	Biology	Chemistry	Physics		
Year Group	Autumn Term	Spring Term	Summer Term		
2023-24 Cycle A	Cycle A - Autumn A My Senses	Cycle A – Spring A Opposites – Hot and Cold, Light and Dark, Frozen and Melted	Cycle A - Summer A Pushes and Pulls and Making things move <mark>Katy's amazing machines - CBeebies</mark>		
2024-25 Cycle B	Cycle B – Autumn A Parts of my Body and Which material is best for?	Cycle B - Spring A Growing Plants/life cycles	Cycle B - Summer A What can my body do? Looking after myself and keeping healthy, Skeletons and bones		
	Nina and the Neurons - CBeebies Maddie- Do you Know? - CBeebies	Investigate with Kit and Pup - CBeebies			
EYFS	<ul> <li>Working 'Scientifically' in EYFS Nursery Children - Understanding of the World/Communi Use all their senses in hands-on exploration of natural ma</li> <li>Explore collections of materials with similar and/or diff</li> <li>Talk about what they see, using a wide vocabulary.</li> <li>Begin to make sense of their own life-story and family's</li> <li>Explore how things work.</li> <li>Plant seeds and care for growing plants.</li> <li>Understand the key features of the life cycle of a plant</li> </ul>	cation and Language       • Begin to understand the need to respective.         terials.       • Explore and talk about different for         erent properties.       • Talk about the differences between         history.       Begin to ask 'why' questions         r and an animal.       To know about similarities and differences the talk about the differences and differences the talk about the differences between	pect and care for the natural rees they can feel. materials and changes they notice. ences in relation to places, objects, about the features of their own onments might vary from one another.		
	Cycle A - Autumn B Materials - Building a house	Cycle A - Spring B Lifecycles of animals and Habitats	Cycle A - Summer B Minibeasts Lifecycles and Habitats		
	LEGO – Ole Kirk Kristiansen	Andy's Baby Animals - CBeebies	David Attenborough		
	Cycle B - Autumn B Pushes and Pulls Magnetism	Cycle B - Spring B Baby animals and change	Cycle B - Summer B Floating and Sinking		

Seasonal Changes	Seasonal Changes	
To observe changes across the four seasons.	To observe changes across the four seasons.	
To observe and describe weather associated with t	To observe and describe weather associated with the seasons	
and how the day length varies.	and how the day length varies.	
Suggested Vocabulary	Suggested Vocabulary	
Summer, Spring, Autumn, Winter, sun, day, moon, n	Summer, Spring, Autumn, Winter, sun, day, moon, night, light.	
Autumn APlants - TreesTo identify and name a variety of common plants, including garden plants, wild plants and trees and those classified as deciduous and evergreen.Suggested VocabularyDeciduous, evergreen, leaves, flowers, roots, branch, blossom, petals, roots, bulb, seed, trunk, branches, stem.Working Scientifically Objectives • Asking simple questions • Observing closely, using simple equipment. • Identifying and classifying • Using their observations and ideas to suggest answers to questionsKey Scientists Jeanne Baret- Botanist Maria Sibylla Merian - German artist and	Spring B/Summer A Everyday Materials Distinguish between an object and the material from which it is made Identify and name a variety of everyday material, including wood, metal, plastic, glass and rock Describe the simple physical properties of a variety of everyday materials Compare and group together a variety of everyday materials based on their properties <b>Working Scientifically Objectives</b> • Identify, classify, sort and compare • Identify an appropriate way to answer a question • Perform simple tests to explore questions • Make simple predictions • Consider results- why did x happen?	Summer A/B Plants - Flowers To identify and describe the basic structure of a variety of common flowering plants, including roots, stem/trunk, leaves and flowers. Suggested Vocabulary Leaves, flowers, roots, bulbs, seed, branch, stem Working Scientifically Objectives • Asking simple questions • Observing closely, using simple equipment. • Identifying and classifying • Using their observations and ideas to suggest answers to questions

Throughout the year

Autumn B/Spring A	<ul> <li>Notice anything that may have affected their</li> </ul>	
Animals Including Humans	results	
To identify and name a variety of common animals		
that are birds, fish, amphibians, reptiles, mammals	<u>Key Scientists</u>	
and invertebrates	William Addis - Toothbrush Inventor	
	Charles Mackintosh - Waterproof coat	
To identify and name a variety of common animals	John Macadam - Roads	
that are carnivores, herbivores and omnivores		
To describe and compare the structure of a		
variety of common animals (birds, fish, amphibians,		
reptiles, mammais and invertebrates, and including		
persy		
To identify, name, draw and label the basic parts		
of the human body and say which part of the body		
is associated with each sense.		
Suggested Vocabulary		
Fish, reptiles, mammals, birds, amphibians,		
herbivore, carnivore, omnivore, beak		
Working Scientifically Objectives		
Asking simple questions		
Observing closely using simple equipment		
<ul> <li>Identifying and classifying</li> </ul>		
• Using their observations and ideas to suggest		
answers to questions		
Key Scientists		
Linda Brown Buck – Biologist Mammals		
Chris Packham – Animal Conservationist		

	<u>Autumn A</u>	Spring	Summer A/B
	Animals including humans	<u>Materials</u>	<u>Plants</u>
YEAR 2	To notice that animals, including humans, have offspring which grow into adults	To identify and compare the uses of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock and	To observe and describe how seeds and bulbs grow into mature plants
	To find out about and describe the basic needs of animals, including humans, for survival (water, food and air)	To find out how the shapes of solid objects made from some materials can be changed by squashing, bending twisting and stretching Suggested Vocabulary Materials, natural, man- made, smooth, bendy, magnetic, non- magnetic Working Scientifically Objectives • asking simple questions • identifying and classifying • using their observations and ideas to suggest answers to questions Key Scientists	To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
	To describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.		<u>Suggested Vocabulary</u> Seeds, bulbs, water, light, temperature, growth
	Suggested Vocabulary survival, adult, baby, offspring, hygiene, exercise, kitten, calf, puppy Working Scientifically Objectives asking simple questions using their observations and ideas to suggest answers to questions Marie Curie		<ul> <li>Working Scientifically Objectives</li> <li>asking simple questions</li> <li>observing closely, using simple equipment</li> <li>performing simple tests (comparative test)</li> <li>identifying and classifying</li> <li>using their observations and ideas to suggest answers to questions</li> </ul>
	<mark>Steve Irwin -</mark> Crocodile Hunter Robert Winston - Human Scientist Joe Wicks - Personal Trainer	<mark>Ole Kirk Kristiansen – LEGO</mark> <mark>Stephanie Kwolek –</mark> Kevlar Patsy Sherman– Scotch Gard	<u>Key Scientists</u> Tim Smit - The Eden Project Agnes Arber - Botanist Alan Titchmarsh - Botanist and Gardener

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<u>Autumn B</u>
Living Things and their Habitats
To explore and compare the differences between
things that are living, dead, and things that have
never been alive.
To 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
To identify and name a variety of plants and animals
in their habitats, including micro-habitats
To describe how animals obtain their food from
plants and other animals, using the idea of a simple
food chain, and identify and name different sources
of food.
Suggested Vocabulary
Habitat, energy, food chain, predator, prey,
woodland, pond, desert, living/dead
Working Scientifically Objectives
<ul> <li>asking simple questions</li> </ul>

- identifying, sorting and classifying
- using their observations and ideas to suggest answers to questions

<u>Key Scientists</u>

Terry Nutkin - TV presenter Liz Bonnin - Conservationist

	<u>Autumn A</u>	<u>Spring A</u>	Summer A/B
<b>YEAR 3</b>	Forces and MagnetsTo notice that some forces need contact between two objects and some forces act at a distanceTo observe how magnets attract or repel each other and attract some materials and not othersTo compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.To describe magnets as having two poles.To predict whether two magnets will attract or repel each other, depending on which poles are facing.To compare how things move on different surfaces.Suggested VocabularyMagnetic, force, contact, attract, repel, friction, poles, push, pull.Working Scientifically Objectives 	<ul> <li>Rocks (Materials) To compare and group together different kinds of rocks on the basis of their simple physical properties To relate the simple physical properties of some rocks to their formation (igneous or sedimentary) To describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rock. Suggested Vocabulary Fossils, soil, sandstone, granite, marble, pumice, crystals, absorbent sedimentary Working Scientifically Objectives <ul> <li>Asking relevant questions.</li> <li>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.</li> <li>Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables. Key Scientists Mary Anning- contribution to palaeontology William Smith - displayed Yorkshire fossils</li></ul></li></ul>	<ul> <li>Plants To identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers. To 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. To investigate the way in which water is transported within plants. To explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. Suggested Vocabulary Flower, pollination, dispersal, transportation, reproduction, soil, nutrients Water, lights. Working Scientifically Objectives <ul> <li>Asking relevant questions.</li> <li>Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables.</li> <li>Comparing and looking for patterns</li> <li>Make careful observations</li> </ul> Key Scientists Jan Ingenhousz – Photosynthesis</li></ul>

<ul> <li>Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables.</li> <li>Key Scientists</li> </ul>		
William Gilbert - Theories on Magnetism Andre Marie Ampere - Founder of Electro- Magnetism George Stephenson		
Autumn B	<u>Spring B</u>	
Animals including Humans	Light	
To identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from	To recognise that they need light in order to see things and that dark is the absence of light	
what they eat	To recognise that light from the sun can be dangerous and that there are ways to protect their eyes	
To identify that humans and some animals have		
skeletons and muscles for support, protection and movement.	To recognise that shadows are formed when the light from a light source is blocked by an opaque object	
Suggested Vocabulary	To notice that light is reflected from surfaces	
Movement, muscles, bones, skeleton, nutrition,		
carbohydrates, dairy, fats, sugars	To find patterns in the way that the size of shadows change	
Working Scientifically Objectives	Suggested Vocabulary	
<ul><li>Asking relevant questions</li><li>Compare and contrast</li></ul>	Light, shadows, mirror, reflective, dark, reflection	
• Recording findings using simple scientific language,	Working Scientifically Objectives	
drawings, labelled diagrams, bar charts, and tables	Asking relevant questions.	
Make observations	Gathering, recording, classifying and presenting data	
• Research	in a variety of ways to help in answering questions.	
Key Scientists	<ul> <li>Recording findings using simple scientific language,</li> </ul>	
Adelle Davis - 20th Century Nutritionist	arawings, labelled alagrams, bar charts, and tables.	
Marie Curie - Radiation/X Rays		
	Key Scientists	
	James Clerk Maxwell - Visible and Invisible Waves of light	

	<u>Autumn A</u>	Spring A	Summer A/B
	States of Matter	Animals including Humans	Living things and their Habitats
	To compare and group materials together, according to	To describe the simple functions of the basic parts of	To identify and name a variety of living
	whether they are solids, liquids or gases	the digestive system in humans	things (plants and animals) in the local and wider environment, using
YEAR 4	<ul> <li>To compare and group materials together, according to whether they are solids, liquids or gases</li> <li>To observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics</li> <li>To identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</li> <li><u>Suggested Vocabulary</u></li> <li>Solid, liquid, gas, evaporation, condensation, particles, temperature, freezing, melting</li> <li><u>Working Scientifically Objectives</u></li> <li>Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables.</li> <li>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>Using results to draw simple conclusions and suggest improvements, new questions and needictions for setting un further tests</li> </ul>	<ul> <li>To describe the simple functions of the basic parts of the digestive system in humans</li> <li>To identify the different types of teeth in humans and their simple functions.</li> <li>To construct and interpret a variety of food chains, identifying producers, predators and prey.</li> <li><u>Suggested Vocabulary</u> oesophagus , small intestine, large intestine, herbivore, carnivore canine, incisor, molar, teeth</li> <li><u>Working Scientifically Objectives</u></li> <li>Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables.</li> <li>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</li> <li>Using results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests.</li> <li>Identifying differences, similarities or changes related to simple scientific ideas and processes.</li> <li>Using straight forward scientific evidence to answer</li> </ul>	To identify and name a variety of living things (plants and animals) in the local and wider environment, using classification keys to assign them to groups To give reasons for classifying plants and animals based on specific characteristics To recognise that environments are constantly changing and that this can sometimes pose dangers to specific habitats. <b>Suggested Vocabulary</b> Vertebrates, amphibians, reptiles, birds, mammals, environment, habitats <b>Working Scientifically Objectives</b> • Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables. • Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
	<ul> <li>Identifying differences, similarities or changes related to simple scientific ideas and processes.</li> <li>Grouping and classifying a variety of different materials.</li> </ul>	questions or to support their findings <u>Key Scientists</u> <u>Ivan Pavlov</u> – Digestive System Mechanism <u>Joseph Lister</u> – Discovered Antiseptics	<ul> <li>Using results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests.</li> <li>Identifying differences, similarities or changes related to simple scientific ideas and processes</li> </ul>
	Anders Celsius - Celsius Temperature Scale Daniel Fahrenheit - Fahrenheit Temperature Scale/Invention of the Thermomete		<ul> <li>Using straight forward scientific evidence to answer questions or to support their findings.</li> </ul>

<u>Autumn B</u> Sound	<u>Spring B and Summer A</u> <u>Electricity</u>	Key Scientists
To recognise that vibrations from sounds travel through a medium to the ear.	To identify common appliances that run on electricity	Extinction Jacques Cousteau - Marine Biologist
To identify how sounds are made, associating some of them with something vibrating To recognise that sounds get fainter as the distance from the sound source increases To find patterns between the pitch of a sound and features of the object that produced it	To identify whether or not a lamp will light in a simple series circuit based on whether or not the lamp is part of a complete loop with a battery To recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit	Joy Adamson - The Born Free Foundation
To find patterns between the volume of a sound and the strength of the vibrations that produced it.	To recognise some common conductors and insulators, and associate metals with being good conductors.	
Suggested Vocabulary	Suggested Vocabulary	
<ul> <li>Volume, vibration, wave, pitch, tone, speaker</li> <li>Working Scientifically Objectives <ul> <li>Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables.</li> <li>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>Identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>Using straight forward scientific evidence to answer questions or to support their findings.</li> </ul> </li> </ul>	<ul> <li>Cells, buzzers, bulbs, switch, battery, circuit, series, conductors, insulators</li> <li>Working Scientifically Objectives <ul> <li>Recording findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables.</li> <li>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>Identifying differences, similarities or changes related to simple scientific ideas and processes.</li> <li>Using straight forward scientific evidence to answer questions or to support their findings.</li> </ul> </li> </ul>	
Aristotle – Sound waves Galileo Galilei – Frequency and Pitch of Sound Waves Alexander Graham Bell– Invented the Telephon	<u>Key Scientists</u> John o'Sullivan - Wifi Thomas Edison - First Working Lightbulb Joseph Swan - Incandescent Light Bulb	

	<u>Autumn A</u>	Spring A/B	Summer A
	Fourth and Chases	<u>Changes in Materials</u>	Animals including humans
	Carth and Space	To compare and group together everyday materials	Describe the changes as humans develop to
	To describe the movement of the Earth relative to the Sun	based on evidence from comparative and fair tests,	old age
	in the solar system.	including their naraness, solubility, conductivity	Succested Vocabulany
	To describe the movement of the Moon relative to the Farth	(electrical and thei mar) and response to magnets.	Foetus, Embryo, Womb, Gestation, Baby,
		To give reasons, based on evidence from	Toddler, Teenager, Elderly, Growth,
	To describe the Sun, Earth and Moon as approximately	comparative and fair tests, for the particular uses	Development, Puberty, Hormone, Physical,
	spherical bodies.	of everyday materials, including metals, wood and	Emotional,
	To use the idea of the Earth's rotation to explain day and	plastic.	Warking Esignitifically Objectives
	night.	To know how some materials will dissolve in liquid	Presenting findings in written form
	Suggested Vocabulary	to form a solution, and describe how to recover a	displays and other presentations
	Forth Curr Mann Avid Datation Day Night Dharage of the	substance from a solution	Researching and recording
	Carth, Sun, Moon, Axis, Rotation, Day, Night, Phases of the		
AR 5	Moon, star, constention, waking, waning, crescent, gibbous. Mercury Venus Mars Tuniter Saturn Uranus Nentune	To use knowledge of solids, liquids and gases to	Key Scientists
	planets, solar system, day, night, rotate, orbit, axis.	through filtering, sieving and evaporating	Prof Robert Winston - Human Scientist
	spherical, geocentric, heliocentric.		
Ň		To demonstrate that dissolving, mixing and changes	
•		of state are reversible changes.	
	other presentations	To evolute that some changes pagult in the	Summer B
	Comparing and constructing models	formation of new materials and that this kind of	Living things and their habitats
	Researching	change is usually not reversible, including changes	To describe the differences in life cycles
	Kau Calentiata	associated with burning and the actions of acid and	common to a variety of animals, including
	Key Scientists	bicarbonate of soda	humans (birth, growth, development,
	Stephen Hawkins	Currented Manchulanu	reproduction, death), and to a variety of
	Claudius Ptolemy and Nicolaus Copernicus -Heliocentric vs	<u>Suggested vocabulary</u> Evaporate condense dissolving magnetic filter	plants (growth, reproduction and death).
	Geocentric Universe	gas, conductivity, transparency, solubility.	To describe the life process of reproduction
	Prof Brian Cox - space		in some plants and animals.
	Neil Armstrong - First man on the Moon		
	Tim Packa Einst Pritich ESA astronaut	Working scientifically objectives	Suggested Vocabulary
	THE FEARE - PIPST BRITISH ESA USTRONUU		

# <u>Autumn B</u>

## **Forces**

Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object and the impact of gravity on our lives.

Identify the effects of air resistance, water resistance and friction, which act between moving surfaces.

Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

## Suggested Vocabulary

Air resistance, Water resistance, Friction, Gravity, Newton, Gears, Pulleys, force, push, pull, opposing, streamline, brake, mechanism, lever, cog, machine, pulley

## Working Scientifically Objectives

- Planning enquiries, including recognising and controlling variables where necessary
- Taking measurements, using a range of scientific equipment, with increasing accuracy and precision
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models
- Presenting findings in written form, displays and other presentations

#### Key Scientists

### Aristotle

Galileo Galilei - Gravity and Acceleration Isaac Newton - Gravitation Archimedes of Syracuse - Levers John Walker - The Match Prof. Brian Cox - air resistance, velocity  Planning enquiries, including recognising and controlling variables where necessary

- Taking measurements, using a range of scientific equipment, with increasing accuracy and precision
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models
- Reporting findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions
   Carrying out tests sand comparing materials

## <u>Key Scientists</u> Spencer Silver,

Arthur Fry and Alan Amron - Post it notes Ruth Benerito - Wrinkle free cotton Foetus, embryo, womb, gestation, development, puberty, teenagers, elderly, growth.

Reproduce, stamen, stigma, sepal, petal, ovary, pollen, style, germinate.

## Working Scientifically Objectives

- Presenting findings in written form, displays and other presentations
- Observing changes
- Asking pertinent questions and suggest reasons for differences and similarities
- Comparing

## <u>Key Scientists</u>

James Brodie of Brodie – Reproduction of Plants by Spores David Attenborough – Naturalist and

Nature Documentary Broadcaster

	<u>Autumn A</u>	<u>Spring A</u>	Summer A
	Light	Animals Including Humans	Evolution and Inheritance
	To recognise that light appears to travel in straight lines To 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. To use the idea that light travels in straight lines to explain	To identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. To recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. To describe the ways in which nutrients and water	To recognise that living things have changes over time and that fossils provide information about living things that inhabited the Earth millions of years ago To recognise that living things produce offspring of the same kind, but normally affspring vary and are not identical to
	why shadows have the same shape as the objects that cast them.	are transported within animals, including humans.	their parents
	To 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.	<u>Suggested Vocabulary</u> Circulatory, vessels, veins, arteries, oxygenated, deoxygenated, valve, exercise, respiration.	Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
YEAR 6	<ul> <li>Suggested Vocabulary</li> <li>Reflection, opaque, mirror, source, travel, spectrum, refraction</li> <li>Working Scientifically Objectives <ul> <li>Planning enquiries, including recognising and controlling variables where necessary</li> <li>Taking measurements, using a range of scientific equipment, with increasing accuracy and precision</li> <li>Recording data and results of increasing</li> <li>Complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models</li> </ul> </li> </ul>	<ul> <li>Working Scientifically Objectives</li> <li>Presenting findings in written form, displays and other presentations</li> <li>Researching</li> <li>Exploring the work of scientists</li> </ul> Key Scientists Justus Von Liebig - Theories of Nutrition and Metabolism Sir Richard Doll - Linking Smoking and Health Problems Leonardo Da Vinci - Anatomy	Suggested Vocabulary Genetics, reproduction, characteristics, evolution, adaptation, fossils, inheritance Working Scientifically Objectives • Presenting findings in written form, displays and other'; presentations • Observing and raising questions • Comparing and analysing advantages and disadvantages Key Scientists Carl Linnaeus - Identifying, Naming and Classifying Organisms
	<u>Key Scientists</u> Thomas Young - Wave theory of Light Ibn al Haytham (Alhazen) - Light and our Eyes Percy Shaw - The Cats Ey		Charles Darwin Alfred Russel Wallace

<u>Autumn B</u>	Spring B	
Electricity	Living Things and their Habitats	
To associate the brightness of a lamp or the volume of a	To describe how living things are classified into	
buzzer with the number and voltage of cells used in the	broad groups according to common observable	
circuit.	characteristics and based on similarities and	
	differences, including micro-organisms, plants and	
To compare and give reasons for variations in how	animals.	
components function, including the brightness of bulbs, the		
loudness of buzzers and the on/off position of switches.	To give reasons for classifying plants and animals	
	based on specific characteristics.	
To use recognised symbols when representing a simple circuit		
in a diagram.	Suggested Vocabulary	
	Classification, Vertebrates, Invertebrates, Micro-	
Suggested Vocabulary	organisms, Amphibians, Reptiles, Mammals, Insects	
Circuit, component, conductor, insulator, symbol, voltage,		
electricity	Working Scientifically Objectives	
	Presenting findings in written form, displays and	
Working Scientifically Objectives	other presentations	
<ul> <li>Presenting findings in written form, displays and other</li> </ul>	Using classification systems and keys	
presentations	Researching	
<ul> <li>Using simple models to describe scientific ideas</li> </ul>		
<ul> <li>Designing and making</li> </ul>	Key Scientists	
	Carl Linnaeus - Identifying, Naming and Classifying	
Key Scientists	Organisms	
Alessandro Volta - Electrical battery	Charles Darwin- Alfred Russel Wallace	
Nicola Tesla – Alternating currents		
Peter Rawlinson - Engineer on electrical vehicle)		