SCIENCE CURRICULUM - YEAR 1 OBJECTIVES TO BE TAUGHT

	TOPIC	IN THIS UNIT OF WORK,
ONGOING - Whole Academic Year	Seasonal Changes Observation; Pattern Seeking	 observe changes across the four seasons observe and describe weather associated with varies; observe and talk about changes in the varies is not safe to look directly at the Sum
AUTUMN	<section-header><section-header><text><text></text></text></section-header></section-header>	 to identify and name a variety of common an reptiles, birds and mammals; the common nambirds and mammals, including those that are ket to identify and name a variety of common an and omnivores to describe and compare the structure of a vamphibians, reptiles, birds and mammals, including the body is associated with each sense including <i>head, neck, arms, elbows, legs, knees,</i> to use the local environment throughout the questions about animals in their habitat; and vanimals taken from their local environment an after study
SPRING	<section-header><section-header></section-header></section-header>	 to distinguish between an object and the mather to identify and name a variety of everyday mather and rock; to explore and experiment not only those listed in this curriculum, but in <i>fabrics, elastic, foil</i> to describe the simple physical properties of explore, name, discuss and raise and answer of that they become familiar with the names of mather hard/soft; stretchy/stiff; shiny/dull; rough/streater proof/not waterproof; absorbent/not abset their simple physical properties; to perform site example: 'What is the best material for an umbra curtains?for a bookshelf?for a gymnast's least the streater of the simple physical properties is the best material for an umbra curtains?for a bookshelf?for a gymnast's least streater of the simple physical properties is the best material for an umbra curtains?for a bookshelf?for a gymnast's least streater of the simple physical properties water of the simple physical phy



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>TO</i> <i>Support</i> Planning
h the seasons and how day length veather and the seasons , even when wearing dark glasses	Reception - Forest School	Switched on Science (through LGfL log in) - Year 1 - Polar Adventurers; Holiday - Example Planning & activities
		(Google Drive, Curriculum 2020, Science, Year 1)
imals including fish, amphibians, ees of some fish, amphibians, reptiles, ept as pets imals that are carnivores, herbivores ariety of common animals (fish, ding pets) rts of the human body and say which the names of the main body parts, face, ears, eyes, hair, mouth, teeth year to explore and answer inderstand how to take care of d the need to return them safely	Reception - explorative play	Switched on Science (through LGfL log in) - Year 1 - Polar Adventurers; Who Am I?; Holidays - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 1) Virtual Experiments (through LGfL log in) - Year 1 & 2 - 1A: Ourselves - Online Resource
erial from which it is made aterials, including wood, plastic, glass, ent with a wide variety of materials, eluding for example: brick, paper, a variety of everyday materials; to aestions about everyday materials so aterials and properties such as: nooth; bendy/not bendy; orbent; opaque/transparent veryday materials on the basis of nple tests to explore questions, for ella?for lining a dog basket?for tard?'	Reception - explorative play, outside area (construction)	Virtual Experiments (through LGfL log in) - Year 1 & 2 - 1C: Sorting & Using Materials - Online Resource

SCIENCE CURRICULUM - YEAR 1 OBJECTIVES TO BE TAUGHT (CONTINUED)

Coopers Lane Primary School's Official Curriculum - Planning Tool

	TOPIC	IN THIS UNIT OF WORK,
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<section-header><section-header><text></text></section-header></section-header>	 to identify and name a variety of common we deciduous and evergreen trees; to become fare examples of deciduous and evergreen trees to use the local environment <u>throughout the</u> questions about plants and trees growing in the to observe the growth of flowers and vegeta to identify and describe the basic structure of plants, including trees; to become familiar with including leaves, flowers (blossom), petals, fruit stem

PLEASE REFER TO THE *'KS1 CONTINUOUS PROVISION PLANNING GUIDE'*, RESOURCE ENHANCEMENTS SECTION, TO HELP SUPPORT THE TEACHING OF THE ABOVE OBJECTIVES IN THE CLASSROOM CONTINUOUS PROVISION.



PUPILS LEARN...

wild and garden plants, including miliar with common names of flowers,

- <u>e year</u> to explore and answer
- their habitat
- ables that they have planted
- of a variety of common flowering
- th common names of plant structures,
- it, roots, bulb, seed, trunk, branches,

PRIOR LEARNING

Reception and Year 1 -Forest School

RESOURCES *TO Support* Planning

Virtual Experiments (through LGfL log in) - Year 1 & 2 - 1B: Growing Plants - Online Resource

SCIENCE CURRICULUM - YEAR 2 OBJECTIVES TO BE TAUGHT

	TOPIC	IN THIS UNIT OF WORK,
	<section-header><text><text></text></text></section-header>	 to identify and compare the suitability of a value including wood, metal, plastic, glass, brick, rocuses to find out how the shapes of solid objects mechanged by squashing, bending, twisting and set identify and discuss the uses of different even become familiar with how some materials are can be used for coins, cans, cars and table legs floors, and telegraph poles) or different maters (spoons can be made from plastic, wood, metae - think about about the properties of materials unsuitable for particular purposes and they shounusual and creative uses for everyday materiation of the school with materials found in othe school, on visits, and in stories, rhymes and so and classifying the uses of different materials.
<section-header></section-header>	<section-header></section-header>	 -to notice that animals, including humans, have find out about and describe the basic needs of survival (water, food and air) to describe the importance for humans of exedifferent types of food, and hygiene. to learn about the basic needs of animals for importance of exercise and nutrition for humane start to think about the processes of reproduction chick, chicken; egg, caterpillar, pupa, butterfly Growing into adults can include reference to be work scientifically by: observing, through vide and measurement, how different animals, include restarts about what things animals need for stay healthy; and suggesting ways to find answer.



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>to</i> <i>Support</i> Planning
ariety of everyday materials, ek, paper and cardboard for particular ade from some materials can be stretching. ryday materials so that they used for more than one thing (metal s; wood can be used for matches, ials are used for the same thing l, but not normally from glass). s that make them suitable or ould be encouraged to think about als. seful new materials, for example John ^c everyday materials in and er places (at home, the journey to ngs); observing closely, identifying and recording their observations.	Year 1 - Spring, Everyday Materials	Switched on Science (through LGfL log in) - Year 2 - Materials Monsters (Google Drive, Curriculum 2020, Science, Year 2)
e offspring which grow into adults of animals, including humans, for ercise, eating the right amounts of survival, as well as the ns. ection and growth, for example; egg, ; spawn, tadpole, frog; lamb, sheep. oaby, toddler, child, teenager, adult. eo or first-hand observation uding humans, grow; asking survival and what humans need to rers to their questions.	Year 1 - Autumn, Animals including Humans	Switched on Science (through LGfL log in) - Year 2 - Healthy Me (Google Drive, Curriculum 2020, Science, Year 2)

SCIENCE CURRICULUM - YEAR 2 OBJECTIVES TO BE TAUGHT (CONTINUED)

	TOPIC	IN THIS UNIT OF WORK, I
<section-header></section-header>	<section-header><text><text></text></text></section-header>	 -to explore and compare the differences betwee things that have never been alive to identify that most living things live in habit describe how different habitats provide for the animals and plants, and how they depend on each to identify and name a variety of plants and at microhabitats to describe how animals obtain their food from the idea of a simple food chain, and identify and
	<section-header><section-header><text></text></section-header></section-header>	 to observe and describe how seeds and bulbs to find out and describe how plants need wat to grow and stay healthy. use the local environment throughout the year plants grow. be introduced to the requirements of plants f as well as to the processes of reproduction and work scientifically by: observing and recording growth of a variety of plants as they change ov observing similar plants at different stages of g to show that plants need light and water to stages



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>TO</i> <i>Support</i> Planning
een things that are living, dead, and tats to which they are suited and basic needs of different kinds of ach other nimals in their habitats, including on plants and other animals, using d name different sources of food.	Reception and Year 1 - Forest School	Switched on Science (through LGfL log in) - Year 2 - Mini Worlds (Google Drive, Curriculum 2020, Science, Year 2)
a grow into mature plants ter, light and a suitable temperature ar to observe how different for germination, growth and survival, d growth in plants. ng, with some accuracy, the rer time from a seed or bulb, or growth; setting up a comparative test by healthy.	Reception and Year 1- Forest School Year 1 - Summer, Plants	Switched on Science (through LGfL log in) - Year 2 - Young Gardeners (Google Drive, Curriculum 2020, Science, Year 2)

SCIENCE CURRICULUM - YEAR 3 OBJECTIVES TO BE TAUGHT

	TOPIC	IN THIS UNIT OF WORK,
<section-header></section-header>	<section-header><section-header><text></text></section-header></section-header>	 Compare and group types of rocks based on properties. Describe simply how fossils were formed. Recognise that soils are made from rocks and Rock formation to gather, record, classify and present data it answering questions ask relevant questions and using different type them observe rocks, including those used in building how and why they might have changed over the to help them to identify and classify rocks according the processils in them
<section-header><section-header><section-header></section-header></section-header></section-header>	<section-header></section-header>	 Compare how things move on different surfate. Notice that some forces need contact between can act at a distance. Observe how magnets attract or repel each of materials and not others. Compare and group together a variety of even magnetism. Describe magnets as having two poles. Predict whether two magnets will attract or their poles.
<section-header><section-header></section-header></section-header>	<section-header></section-header>	 Recognise they need light in order to see this light. Notice that light reflects from surfaces. Recognise that light from the sun can be dan eyes. Recognise that shadows are formed when an object blocks the light from a source. Find patterns in the way that the sizes of shadows are formed when an object shadows are formed when a source.



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>TO</i> <i>Support</i> Planning
appearance and simple physical d organic matter. n a variety of ways to help in pes of scientific enquiries to answer ngs and gravestones, and exploring me; using a hand lens or microscope ording to whether they have grains or n.	Year 2, Autumn; Everyday Materials	Switched on Science (through LGfL log in) - Year 3 - Earth Rocks (Google Drive, Curriculum 2020, Science, Year 3)
aces. en two objects, but magnetic forces other, and how they attract some eryday materials based on repel each other based on		Switched on Science (through LGfL log in) - Year 3 - Opposites attract (Google Drive, Curriculum 2020, Science, Year 3)
ngs and that dark is the absence of ngerous – need to protect our n opaque ndows change.	Y1 Seasonal Changes	Switched on Science (through LGfL log in) - Year 3 - Mirror, Mirror (Google Drive, Curriculum 2020, Science, Year 3)

SCIENCE CURRICULUM - YEAR 3 OBJECTIVES TO BE TAUGHT (CONTINUED)

	TOPIC	IN THIS UNIT OF WORK,
<section-header><section-header></section-header></section-header>	<section-header><section-header></section-header></section-header>	 to identify and describe functions of different. explore the requirements of plants for life and plant to plant. Investigate the way in which water is transported explore the part that flowers play in the life of and seed dispersal to become familiar with common names of p flowers (blossom), petals, fruit, roots, bulb, seed, .
	<section-header><section-header><text></text></section-header></section-header>	 to identify that animals, including humans, in nutrition, and that they cannot make their own - to understand and apply the principles of a line carbohydrates, protein, fats identify that humans and some animals have protection and movement to name and locate some bones within the signature protection for the difference between a hing - to understand the difference between a hing - to describe how muscles work; how they are how they work in pairs, contracting and reflex - to group and classify animals that have intertat don't (invertebrates) to understand how x-rays were discovered bused today in medicine.



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>TO</i> <i>Support</i> Planning
t parts of flowering plants. d growth, and how they vary from orted within plants. cycle – pollination, seed formation lant structures, including leaves , trunk, branches, stem	Year 2 - Summer; Plants	Switched on Science (through LGfL log in) - Year 3 - How does your garden grow? (Google Drive, Curriculum 2020, Science, Year 3)
heed the right types and amount of in food. healthy diet; nutrients , e skeletons and muscles for support, keletal structure: skull, ribcage , ge joint and a ball and socket joint. e connected by bones and tendons; king mal skeletons (vertebrates) and those by Wilhem Rontgen and how they are	Year 1 - Autumn; Animals incl. Humans Year 2 - Spring 1; Animals incl. Humans	Switched on Science (through LGfL log in) - Year 3 - Food and our bodies (Google Drive, Curriculum 2020, Science, Year 3)

SCIENCE CURRICULUM - YEAR 4 OBJECTIVES TO BE TAUGHT

	TOPIC	IN THIS UNIT OF WORK,
<section-header></section-header>	Sound Observation; Pattern Seeking; dentifying, Classifying & Grouping; Research	 to identify how sounds are made, associating vibrating to recognise that vibrations from sounds travely to find patterns between the pitch of a sound produced it to find patterns between the volume of a sound that produced it to recognise that sounds get fainter as the different musical instruments from around the and volume of sounds can be changed in a variant.
<section-header></section-header>	<section-header></section-header>	 to compare and group materials together, actiguids or gases to observe that some materials change state measure or research the temperature at which to identify the part played by evaporation and associate the rate of evaporation with temperate about the digestive system and compare there to explore a variety of everyday materials and states of matter (solids hold their shape; liquid from an unsealed container). to observe water as a solid, a liquid and a gas water when it is heated or cooled.
<section-header><section-header></section-header></section-header>	Animals including Humans Observation; Identifying, Observative & Grouping; Comparative & Fair Testing; Research	 to describe the simple functions of the basic humans to identify the different types of teeth in hum to construct and interpret a variety of food of predators and prey. be introduced to the main body parts associate example, mouth, tongue, teeth, oesophagus, stere to explore questions that help them to under work scientifically by: comparing the teeth of suggesting reasons for differences; finding out after them. to draw and discuss their ideas about the dig with models or images.



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>TO</i> <i>Support</i> Planning
g some of them with something wel through a medium to the ear d and features of the object that and and the strength of the vibrations istance from the sound source de through vibration in a range of e world; and find out how the pitch iety of ways.		Switched on Science (through LGfL log in) - Year 4 - What's that Sound?- Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 4)
ecording to whether they are solids, when they are heated or cooled, and a this happens in degrees Celsius (°C) d condensation in the water cycle and ature m with models or images. d develop simple descriptions of the ls form a pool not a pile; gases escape		Switched on Science (through LGfL log in) - Year 4 - Looking at States - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 4)
parts of the digestive system in nans and their simple functions chains, identifying producers, ated with the digestive system, for tomach and small and large intestine rstand their special functions. If carnivores and herbivores, and t what damages teeth and how to look gestive system and compare them	Year 1 - Autumn, Animals incl Humans Year 2 - Spring 1, Animals incl Humans Year 3 - Summer, Animals incl Humans	Switched on Science (through LGfL log in) - Year 4 - Teeth and Eating - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 4)

SCIENCE CURRICULUM - YEAR 4 OBJECTIVES TO BE TAUGHT (CONTINUED)

	TOPIC	IN THIS UNIT OF WORK,
<section-header></section-header>	<section-header></section-header>	 to identify common appliances that run on electrical circuit, identifying and naming its babulbs, switches and buzzers to identify whether or not a lamp will light in whether or not the lamp is part of a complete to recognise that a switch opens and closes a whether or not a lamp lights in a simple series conductors and insulators, and associate meta to construct simple series circuits, trying diffibulbs, buzzers and motors, and including switch simple devices. to start to draw the circuit as a pictorial reprised to observe patterns, for example, that bulbs at the stage that metals tend to be conductors of electricity some cannot be used to connect across a gap in the series of the series o
	<section-header></section-header>	 to recognise that living things can be grouped to explore and use classification keys to hele of living things in their local and wider environed recognise that environments can change and dangers to living things. to use the local environment throughout the that help them to identify and study plants and identify how the habitat changes throughout explore possible ways of grouping a wide sel animals and flowering plants and non-flowerine begin to put vertebrate animals into groups birds, and mammals; and invertebrates into strinsects. Note: Plants can be grouped into cate (including grasses) and non-flowering plants, explore examples of human impact (both porfor example, the positive effects of nature resigned and plants). to work scientifically by: using and making stridentify local plants and animals; making a guit answering questions based on their observation.



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>to</i> <i>Support</i> Planning
ectricity construct a simple series sic parts, including cells, wires, a simple series circuit, based on oop with a battery circuit and associate this with circuit recognise some common ls with being good conductors. Ferent components, for example, ches, and use their circuits to create esentation, not necessarily using get brighter if more cells are added, y, and that some materials can and n a circuit.		Switched on Science (through LGfL log in) - Year 4 - Power it Up!- Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 4)
ed in a variety of ways o group, identify and name a variety ment I that this can sometimes pose e year to raise and answer questions d animals in their habitat. t the year. ection of living things that include ng plants. such as fish, amphibians, reptiles, aails and slugs, worms, spiders, and gories such as flowering plants such as ferns and mosses. sitive and negative) on environments, erves, ecologically planned parks, or ulation and development, litter or emple guides or keys to explore and de to local living things; raising and ons of animals and what they have researched.	Year 2- Spring 2, Living things and their habitat	Switched on Science (through LGfL log in) - Year 4 - Living Things - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 4)

SCIENCE CURRICULUM - YEAR 5 OBJECTIVES TO BE TAUGHT

Coopers Lane Primary School's Official Curriculum - Planning Tool

	TOPIC	IN THIS UNIT OF WORK,
	<section-header><section-header></section-header></section-header>	 to compare and group together everyday maproperties, including their hardness, solubility (electrical and thermal), and response to maga - that some materials will dissolve in liquid to recover a substance from a solution use know decide how mixtures might be separated, incluevaporating to give reasons, based on evidence from comparticular uses of everyday materials, including - to demonstrate that dissolving, mixing and changes to explain that some changes result in the forthis kind of change is not usually reversible, in burning and the action of acid on bicarbonate to build a more systematic understanding or comparing the properties of a broad range of what they learnt about magnetism in year 3 and - to explore reversible changes, including, eval and dissolving, recognising that melting and de to explore changes that are difficult to revert other reactions, for example, vinegar with bication about how chemists create new materials, for invented the glue for sticky notes or Ruth Bern cotton.
<section-header></section-header>	<section-header></section-header>	 to describe the movement of the Earth, and the solar system to describe the movement of the Moon relate to describe the Sun, Earth and Moon as appredicted to a solution to express the set of the sun across the set. be introduced to a model of the Sun and Earth and night. that the Sun is a star at the centre of our solution planets: Mercury, Venus, Earth, Mars, Jupiter, was reclassified as a 'dwarf planet' in 2006). that a moon is a celestial body that orbits a planet four large moons and numerous smaller or the set of the s



PUPILS LEARN...

aterials on the basis of their y, transparency, conductivity nets

form a solution, and describe how to owledge of solids, liquids and gases to uding through filtering, sieving and

nparative and fair tests, for the ng metals, wood and plastic changes of state are reversible

ormation of new materials, and that neluding changes associated with e of soda.

of materials by exploring and materials, including relating these to nd about electricity in year 4. aporating, filtering, sieving, melting

lissolving are different processes. rse, for example, burning, rusting and arbonate of soda.

or example, Spencer Silver, who nerito, who invented wrinkle-free

other planets, relative to the Sun in

tive to the Earth roximately spherical bodies lain day and night and the apparent

th that enables them to explain day

ar system and that it has eight Saturn, Uranus and Neptune (Pluto

planet (Earth has one moon; Jupiter ones).

PRIOR LEARNING

Year 2 - Autumn, Everyday Materials

RESOURCES *TO SUPPORT* PLANNING

Switched on Science (through LGfL log in) - Year 5 - Material World - Example Planning & activities

(Google Drive, Curriculum 2020, Science, Year 5)

Switched on Science (through LGfL log in) - Year 5 - Out of this World! - Example Planning & activities

(Google Drive, Curriculum 2020, Science, Year 5)

SCIENCE CURRICULUM - YEAR 5 OBJECTIVES TO BE TAUGHT (CONTINUED)

	TOPIC	IN THIS UNIT OF WORK,
SPRING 2	<section-header></section-header>	 to explain that unsupported objects fall toward gravity acting between the Earth and the falling - to identify the effects of air resistance, water between moving surfaces to recognise that some mechanisms, including smaller force to have a greater effect. to explore falling objects and raise questions - to explore the effects of air resistance by obserparachutes and sycamore seeds fall. to explore the effects of friction on movement moving objects, for example, by observing the effects of levers, pulleys and sit - how scientists, for example, Galileo Galilei and the theory of gravitation.
SUMMER 1	<u>Animals including Humans</u> Observation; Pattern Seeking; Identifying, Classifying& Grouping; Research	 -to describe the changes as humans develop to - to draw a timeline to indicate stages in the grabout the changes experienced in puberty. - to work scientifically by researching the gest comparing them with humans; by finding out a a baby as it grows
<section-header><section-header></section-header></section-header>	<section-header><section-header><text></text></section-header></section-header>	 to describe the differences in the life cycles of and a bird to describe the life process of reproduction in to observe life-cycle changes in a variety of litthe vegetable garden or flower border, and ania to find out about the work of naturalists and a David Attenborough and Jane Goodall. to find out about different types of reproduction in plants, and sexual reproduction to observe and compare the life cycles of plant environment with other plants and animals are the oceans, in desert areas and in prehistoric to suggesting reasons for similarities and different



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>TO</i> <i>Support</i> Planning
rds the Earth because of the force of g object resistance and friction, that act g levers, pulleys and gears, allow a about the effects of air resistance erving how different objects such as at and find out how it slows or stops effects of a brake on a bicycle wheel. mple machines on movement. d Isaac Newton helped to develop	Year 3 - Autumn 2; Forces and Magnets	Switched on Science (through LGfL log in) - Year 5 - Let's get Moving - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 5)
o old age. rowth and development of humans cation periods of other animals and and recording the length and mass of	Year 3 - Summer, Animals incl humans Year 4 - Spring 1, Animals incl humans	Switched on Science (through LGfL log in) - Year 5 - Growing Up and Growing Old - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 5)
of a mammal, an amphibian, an insect n some plants and animals. aving things, for example, plants in mals in the local environment. animal behaviourists, for example, tion, including sexual and asexual on in animals. Ints and animals in their local ound the world (in the rainforest, in imes), asking pertinent questions and nees.	Year 2 - Spring 2; Living things and their habitats Year 4 - Summer; Living things and their habitats	Switched on Science (through LGfL log in) - Year 5 - Circle of Life - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 5)

SCIENCE CURRICULUM - YEAR 6 OBJECTIVES TO BE TAUGHT

	TOPIC	IN THIS UNIT OF WORK,
<section-header></section-header>	<section-header></section-header>	 recognise that light appears to travel in straig about the idea that light travels in straight life to explain that objects are seen because they to explain that we see things because light travels in the to out to use the idea that light travels in straight life same shape as the objects that cast them. to explore the way that light behaves, includit shadows work scientifically by: deciding where to place designing and making a periscope and using the straight lines to explain how it works. to investigate the relationship between light using shadow puppets; looking a range of pheron soap bubbles, objects looking bent in water
AUTUMN 2	<section-header><text></text></section-header>	 to associate the brightness of a lamp or the vand voltage of cells used in the circuit to compare and give reasons for variations in including the brightness of bulbs, the loudness of switches to use recognised symbols when representing to construct simple series circuits, to help the happens when they try different components, and motors. how to represent a simple circuit in a diagram work scientifically by: systematically identify component at a time in a circuit; designing and
	<section-header><section-header><text></text></section-header></section-header>	 to recognise that living things have changed information about living things that inhabited to recognise that living things produce offspring vary and are not identical to their partice of identify how animals and plants are adapted different ways and that adaptation may lead to about fossils and more about how living thing that characteristics are passed from parents considering different breeds of dogs, and what labradors are crossed with poodles. that variation in offspring over time can make in particular environments, for example, by example, by example, or the development of insulating fur or about the work of palaeontologists such as M Darwin and Alfred Wallace developed their identical to their particular environments.



, PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>TO</i> <i>Support</i> Planning
iight lines ines by give out or reflect light into the eye cravels from light sources to our eyes ur eyes ines to explain why shadows have the ding light sources, reflection and eve rear-view mirrors on cars; the idea that light appears to travel in t sources, objects and shadows by enomena including rainbows, colours or and coloured filters	Year 3 - Spring 1; Light	Switched on Science (through LGfL log in) - Year 6 - Let it Shine - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 6)
volume of a buzzer with the number in how components function, as of buzzers and the on/off position ng a simple circuit in a diagram. hem to answer questions about what b, for example, switches, bulbs, buzzers am using recognised symbols. Ying the effect of changing one ad making a set of traffic lights.	Year 4 - Spring 2; Electricity	Switched on Science (through LGfL log in) - Year 6 - Electrifying - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 6)
l over time and that fossils provide I the Earth millions of years ago oring of the same kind, but normally arents ted to suit their environment in to evolution ags on earth have changed over time. Is to their offspring, for instance by at happens when, for example, ke animals more or less able to survive xploring how giraffes' necks got on the arctic fox. Mary Anning and about how Charles eas on evolution.		Switched on Science (through LGfL log in) - Year 6 - We're Evolving - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 6)

SCIENCE CURRICULUM - YEAR 6 OBJECTIVES TO BE TAUGHT (CONTINUED)

	TOPIC	IN THIS UNIT OF WORK, I
<section-header><section-header></section-header></section-header>	<section-header><section-header><text></text></section-header></section-header>	 -to describe how living things are classified intercommon observable characteristics and based including microorganisms, plants and animals to give reasons for classifying plants and anime about the idea that broad groupings, such as a can be subdivided. to make direct observations where possible; of found invertebrates (such as insects, spiders, seamphibians, reptiles, birds and mammals). to discuss reasons why living things are place about the significance of the work of scientist to work scientifically by: using classification seanimals and plants in the immediate environmeter of the significance of the significa
	<section-header></section-header>	 to identify and name the main parts of the hudescribe the functions of the heart, blood vesses - to recognise the impact of diet, exercise, drubodies function to describe the ways in which nutrients and wincluding humans. about the main body parts and internal organ system) to explore and answer questions that help the circulatory system enables the body to function how to keep their bodies healthy and how the including how some drugs and other substance body. to work scientifically by: exploring the work of about the relationship between diet, exercise, drugs and drugs and the relationship between diet, exercise, drugs and drugs



PUPILS LEARN	PRIOR LEARNING	RESOURCES <i>to</i> <i>Support</i> Planning
to broad groups according to l on similarities and differences, mals based on specific characteristics micro-organisms, plants and animals classifying animals into commonly snails, worms) and vertebrates (fish, ed in one group and not another. sts such as Carl Linnaeus, a pioneer of systems and keys to identify some nent. om a broad range of other habitats.	Year 4 - Summer; Living things and their habitat Year 5 - Summer 2; Living things and their habitat	Switched on Science (through LGfL log in) - Year 6 - Classifying Critters - Example Planning & activities (Google Drive, Curriculum 2020, Science, Year 6)
uman circulatory system, and sels and blood ugs and lifestyle on the way their water are transported within animals, ans (skeletal, muscular and digestive hem to understand how the on. heir bodies might be damaged – ces can be harmful to the human of scientists and scientific research drugs, lifestyle and health.	<text><text></text></text>	Switched on Science (through LGfL log in) - Year 6 - Staying & Alive - Example Planning & activities(Google Drive, Curriculum 2020, Science, Year 6)