Science LTP 22- 23	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1 SHORT	Summer 2
1	Seasonal Changes (Autumn focus)	Animals Including Humans (Naming Animals and Body Parts)	Everyday Materials	Materials contd Seasonal change (revisit)	Plants (Names and Structure of plants)	Seasonal Change (Summer focus) Light (Sources & exploratory unit)
2	Living Things and their Habitats (Suitable habitats. Simple Food Chains)	Animals Including Humans (Health and Growth)	Uses of everyday Materials (Includes physical changes: squash, bend, etc)	Forces (exploratory unit)	'Working Scientifically'	Plants (Conditions for Growing)
3	Animals including Humans	Light	Forces (Friction, Magnets)	Rocks (Including fossil formation)	'Working Scientifically'	Plants (Requirements for growth, function of parts, life cycle)
4	Living Things and their habitats (Grouping, classifying, changes to habitats,	Animals Including Humans (Health, teeth, digestion)	Sound	Electricity	'Working Scientifically'	States of Matter
5	Earth and Space	Properties and changes in Materials	Forces (Gravity, Friction, Air resistance, Levers, pulleys)	Forces Contd	Living Things and Their Habitats (Life Cycles)	Animals including Humans (Human Growth)
6	Living Things and their Habitats → (Classifying, Including Microorganisms)	Living things and their habitats contd.	Evolution and inheritance contd.	Animals inc humans (Circulation)	Electricity	Light

Science Knowledge and Skills Progression						St John Fisher
	Evolution and Inheritance->	Animals inc Humans (Health and circulation)				

The national curriculum for science aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future

Key Stage 1 Working scientifically. Pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- asking simple questions and recognising that they can be answered in different ways
- observing closely, using simple equipment
- performing simple tests
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering question

Note: Year 1 and Year 2 classes focus explicitly on developing their 'Working Scientifically' Objectives (above) during the Autumn B half term.

They also experience non-statutory exploratory physics units In Spring B, in preparation for physics-based topics in KS2:

- Y1: Light (Exploratory activities)
- Y2: Forces (Exploratory Unit)

Key Stage 2 - During years 3 and 4, pupils should be taught to:

- ask relevant questions and use different types of scientific enquiries to answer them
- set up simple practical enquiries, comparative and fair tests
- make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- gather, record, classify and present data in a variety of ways to help in answering questions
- record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- identify differences, similarities or changes related to simple scientific ideas and processes
- use straightforward scientific evidence to answer questions or to support their findings

Note: Year 3 and Year 4 classes focus explicitly on developing their 'Working Scientifically' objectives (above) during the Spring B half term.

During years 5 and 6, pupils should be taught to:

- plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- use test results to make predictions to set up further comparative and fair tests
- report and present findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as

S	ence Knowledge and Skills Progression St	John Fisher
	displays and other presentations identifying scientific evid support or refute ideas or arguments	dence that has been used to
	Note: Year 5 and Year 6 classes focus explicitly on developing objectives (above) during the Autumn B half term.	their 'Working Scientifically'

Reception ELG

Knowledge and Understanding of the World People and Communities

• Children talk about past and present events in their own lives and in the lives of family members. They know that other children don't always enjoy the same things, and are sensitive to this. They know about similarities and differences between themselves and others, and among families, communities and traditions.

The World

• Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur, and talk about changes.

Technology

Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.

Year 1

Seasonal Changes

Knowledge:

- To observe changes across the 4 seasons.
- To observe and describe weather associated with the seasons and how day length varies.

Skills:

- To make a pictogram about daylight time
- -To observe and talk about changes in the weather and the seasons.
- To observe how a tree changes during the seasons.

Everyday Materials Knowledge:

- To know the difference between an object and the material from which it is made.
- To name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.
- describe the simple physical properties of a variety of everyday materials

Skills:

- -To explore the properties of various materials through their senses.
- compare and group together a variety of everyday materials on the basis of their simple physical properties.
- -To classify materials using a key.

Animals Including Humans Knowledge:

- To identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.

- To identify and name a variety of common animals that are carnivores, herbivores and omnivores.
- To describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets).
- 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. Skills:
- To identify and group animals according to what they eat.
- To explore the differences between wild/non-wild animals.
- To explore animal structures through researching their abilities.
- Use their senses to compare different textures, sounds and smells.

<u>Plants</u>

Knowledge:

- -To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.
- -To identify and describe the basic structure of a variety of common flowering plants. **Skills:**
- To observe the growth of flowers and vegetables that they have planted.
- To use an identification chart to identify flowers in our outdoor areas.
- To compare tree barks.

				-To use observations and ideas to answer scientific questions about	
		Baby.			
	Y1 Enquiry Examples (Will run	Observation over time:			
	through the units, and in the				
	allocated half term.)	Pattern seeking. -To complete a pattern seeking enquiry around falling leaves. (Autumn B) Identifying, classifying and grouping.			
		- Identifying and grouping animals ac	_		
		- Identifying and naming a variety of	common v	vild and garden plants, including de	ciduous and evergreen trees.
		<u>Comparative</u>			
		- To complete a simple comparative t		•	
		- Simple test exploring what happens		•	ed.
		- Which type of soil/compost grows t			
		- To compare sense of smell when bli	indfolded v	s not. (Autumn B)	
		Research using secondary sources			
		- Research opportunities throughout			
Year 2	Living Things and their Habitats	Uses of Everyday Materials	_	Animals Including Humans	<u>Plants</u>
	Literacy Link: Wild	Literacy Link: Traction Man	Knowled	_	Knowledge:
	Knowledge :	Knowledge:		ce that animals, including	-To observe and describe how seeds and bulbs
	- To explore and compare the	-Identify and compare the		have offspring which grow into	grow into mature plants. (Observing over time)
	differences between things that are	suitability of a variety of everyday	adults.		-To find out and describe how plants need water,
	living, dead, and things that have	materials, including wood, metal,		out about and describe the basic	light and a suitable temperature to grow and stay
	never been alive.	plastic, glass, brick, rock, paper and		animals, including humans, for	healthy.
	- To identify that most living things	cardboard for particular uses.		(water, food and air)	Skills:
	live in habitats to which they are suited and describe how different	-To know how the shapes of solid objects made from some materials		ribe the importance for humans se, eating the right amounts of	- To sort and compare seeds.(Identifying and classifying)
	habitats provide for the basic needs	can be changed by squashing,		types of food, and hygiene	- To plant and grow from seeds and bulbs.
	of different kinds of animals and	bending, twisting and stretching.	Skills:	types of food, and flygiene	- To plant and grow from seeds and buibs.
	plants, and how they depend on each	Skills:		rve how different animals,	
	other.	-To compare the uses of everyday		humans, grow.	
	- To identify and name a variety of	materials in and around the school		estions about what things animals	
	plants and animals in their habitats,	with materials found in other		survival and what humans need	
	including microhabitats.	places	to stay h		
	- To describe how animals obtain	-To observe closely, to identify and	,	,	
	their food from plants and other	classify the uses of different			
	animals, using the idea of a simple	materials, and record their			
	food chain, and identify and name	observations in tables.			
	different sources of food.				

Skills:

- Sort and classify things according to whether they are living, dead or were never alive.
- Record their findings using charts.
- Construct a simple food chain.
- Answer questions that enable them to become familiar with the life processes that are common to all living things.

Y2 Enquiry Examples (Will run through the units, and in the allocated half term.)

Observation over time:

- -To observe how much food and drink they have over a week. (Animals inc humans)
- To observe and record, with some accuracy, the growth of a variety of plants as they change over time from a seed or bulb. (Plants)

Pattern seeking.

- Pattern seeking enquiry: Which conditions do woodlice prefer to live in? (Animals and their habitats)

Identifying, classifying and grouping.

- Observing, classifying and grouping materials (Materials)
- Exploring and comparing the differences between things that are living, dead, and things that have never been alive. (Animals/Habitats)
- Identifying and naming a variety of plants and animals in their habitats, including microhabitats. (Animals/Habitats)
- -To classify healthy/non healthy foods.(Animals inc humans)

Comparative

- To carry out a simple test around shoe material. (Materials)
- -To carry out a simple comparative test around plugging a hole with a material. (+Recording in tables) (Materials)
- -To investigate exercises that tire us out more. (+answering questions) (Animals inc Humans)
- -To carry out a simple comparative test: Stretchy tights. (Materials)
- To observe similar plants at different stages of growth; Set up a comparative test to show that plants need light and water to stay healthy. (Plants)

Research using secondary sources

- Research opportunities throughout each topic utilising both the internet and library loan books.

			_		
Year 3	Light	Animals Including	<u>Forces</u>	SI .	
	Literacy Link: Orion in the Dark	<u>Humans</u>	Knowledge:	<u>Plants</u>	Rocks
	Knowledge:	Knowledge:	- To compare how things	Knowledge:	Knowledge:
	- To know that light is needed in	-To identify that animals,	move on different surfaces.	- To know and describe the	- To compare and group together
	order to see things and that dark is	including humans, need	- To notice that some forces	functions of different parts of	different kinds of rocks on the basis of
	the absence of light.	the right types and	need contact between 2	flowering plants: roots,	appearance and simple physical
	- To know that light is reflected from	amount of nutrition, and	objects, but magnetic forces	stem/trunk, leaves and flowers.	properties.
	surfaces.	that they cannot make	can act at a distance.	- To know the requirements of	- To describe in simple terms how
	- To know that light from the sun can	their own food; they get	- To observe how magnets	plants for life and growth and	fossils are formed when things that
	be dangerous and that there are ways	nutrition from what they	attract or repel each other	how they vary from plant to	have lived are trapped within rock.
	to protect our eyes.	eat.	and attract some materials	plant.	- Recognise that soils are made from
	- To know that shadows are formed	-To identify that humans	and not others.	- To know how water is	rocks and organic matter.
	when the light from a light source is	and some other animals	-To compare and group	transported within plants.	Skills:
	blocked by an opaque object.	have skeletons and	together a variety of	-To know the part that flowers	-To use a hand lens or microscope to
	- To find patterns in the way that the	muscles for support,	everyday materials on the	play in the life cycle of flowering	help identify and classify rocks
	size of shadows change.	protection and	basis of whether they are	plants, including pollination, seed	according to whether they have grains
	Skills:	movement.	attracted to a magnet, and	formation and seed dispersal.	or crystals, and whether they have
	- To observe and measure shadows,		identify some magnetic	Skills:	fossils in them.
	and find out how they are formed	Skills:	materials.	-To look for patterns in the	 To research and discuss the different
	and what might cause the shadows to	-To observe and	-To describe magnets as	structure of fruits that relate to	kinds of living things whose fossils are
	change.	compare animals with	having 2 poles.	how the seeds are dispersed.	found in sedimentary rock and explore
	- To observe and measure the	and without skeletons.	-Predict whether two	-To explore how water is	how fossils are formed.
	reflection of light.	-To make a model of the	magnets will attract or repel	transported through a plant using	-To explore different soils and identify
		muscles of the arm.	each other, depending on	dye.	similarities and differences between
		-To compare and	which poles are facing.		them
		contrast the diets of	Skills:		-To raise and answer questions about
		different animals.	-To observe and compare		the way soils are formed.
			how things move on		
			different surfaces.		
			-To carry out a test		
			accurately and record		
			results.		
			- To make decisions about		
			how to record.		
	Y3 Enquiry Examples (Will run	Observation over time:			•
	through the units, and in the	-To compare the effect of	different factors on plant growt	h, for example, the amount of light, t	the amount of fertilizer. (Plants)
	allocated half term.)	-To observe how water is t	ransported in plants, plot chang	ges in the length of roots on a bar cha	art. (Plants)
		Pattern seeking.			

-Pattern seeking enquiry. Eg 'Can people with longer legs jump further?' including making predictions. (Animals including Humans)

Identifying, classifying and grouping.

- -To compare and contrast the diets of different animals. (Animals inc Humans)
- -To 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. (Forces)
- -To explore different soils and identify similarities and differences between them. (Rocks)

Comparative and Fair Testing

- To carry out a simple test to look for patterns in what happens to shadows when the light source move. (Light)
- To use a light meter/ data logger to carry out a fair test to investigate what happens when the distance between the light source and the object changes. Produce a bar chart to show results. (Light)
- To carry out a simple test to sort materials into those that are magnetic and those that are not. To seek common factors and draw conclusions. (Forces)
- -To set up a class fair test to investigate how objects move on different surfaces. (Forces)
- To test what happens when different poles face each other and record in a table. To present findings. (Forces)
- To use comparative tests to investigate what happens when rocks are rubbed together, and permeability. (Rocks)

Research using secondary sources

- Research opportunities throughout each topic utilising both the internet and library loan books.
- To research and discuss the different kinds of living things whose fossils are found in sedimentary rock and explore how fossils are formed.

Year 4	Electricity	Animals Including Humans	<u>Sound</u>	Living Things and their Habitats	States of Matter
	Knowledge:	Literacy Link: The incredible	Literacy Link: The Pied Piper	Literacy Link: The Promise	Knowledge:
	- To know common appliances	Book Eating Boy	Knowledge:	Knowledge:	-To compare and group
	that run on electricity	Knowledge:	-To identify how sounds are	-To recognise that living things can	materials together, according to
	- Construct a simple series	- To describe the simple	made, associating some of	be grouped in a variety of ways.	whether they are solids, liquids
	electrical circuit, identifying	functions of the basic parts	them with something	- To explore and use classification	or gases.
	and naming its basic parts,	of the digestive system in	vibrating.	keys to help group, identify and	-To observe that some
	including cells, wires, bulbs,	humans.	- To recognise that	name a variety of living things in	materials change state when
	switches and buzzers.	- To identify the different	vibrations from sounds	their local and wider environment.	they are heated or cooled, and
	- Identify whether or not a	types of teeth in humans	travel through a medium to	-To recognise that environments	measure or research the
	lamp will light in a simple	and their simple functions.	the ear.	can change and that this can	temperature at which this
	series circuit, based on	- Construct and interpret a	- To find patterns between	sometimes pose dangers to living	happens in degrees Celsius (°C).
	whether or not the lamp is	variety of food chains,	the pitch of a sound and	things.	

part of a comp	lete loop	with a
battery.		

- Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.
- Recognise some common conductors and insulators, and associate metals with being good conductors.

 Skills:
- To construct a simple series electrical circuit, naming its parts.
- -To use circuits to create simple devices. (eg torch)
- To draw circuits as a pictorial representation.

identifying producers, predators and prey. **Skills:**

- To produce a flow diagrams and observational diagrams to show what happens when we chew, and what happens to food in our stomach.
- -To observe closely teeth used for different things.
- -To model how a stomach breaks up food.
- To draw food chains, ensuring that arrows show the direction that energy is passed.

features of the object that produced it.

- To find patterns between the volume of a sound and the strength of the vibrations that produced it.
- To recognise that sounds get fainter as the distance from the sound source increases.

Skills:

- -To make different sounds, identifying vibrations.
- -To describe using a diagram how sounds teach the ear.
- To use a data logger to measure sound levels

Skills:

- -To use and make simple guides or keys to explore and identify local plants and animals.
- -To raise and answer questions based on observations of animals and what they have found out about other animals that they have researched.

- To identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

Skills:

- -To group and classify a variety of different materials.
- To explore the effect of temperature on substances.
- -To observe water as a solid, a liquid and a gas and note the changes to water when it is heated or cooled.

Y4 Enquiry Examples (Will run through the units, and in the allocated half term.)

Observation over time:

- -To observe what happens to an eggshell when it is left in cola (Animals inc Humans)
- To observe and record evaporation over a period of time (States of matter)
- -To observe water as a solid, a liquid and a gas and note the changes to water when it is heated or cooled. (States of Matter) <u>Pattern seeking.</u>
- -To research and gather data to look for a pattern between use of insecticides and bee population. (Animals and their habitats.) <u>Identifying, classifying and grouping</u>.
- -To classify materials into conductors/insulators.
- -To use and make simple guides or keys to explore and identify local plants and animals. (Living Things and their Habitats)
- -To group and classify a variety of different materials. (States of Matter)
- -To use and make simple guides or keys to explore and identify local plants and animals. (Animals and their habitats) Comparative and Fair Testing
- To carry out a simple test to identify conductors and insulators, and draw conclusions from it. (Electricity)
- To carry out a simple test to determine how we use our different teeth for different foods. (Animals inc Humans)
- To carry out a fair test on how the volume of a drum changes as you get further away from it (Fair test) using a data logger and graphing results. (Sound)
- To observe and record evaporation over a period of time (States of matter)

Research using secondary sources

- -Research opportunities throughout each topic utilising both the internet and library loan books.
- -Internet research on insecticide use and bee population. (Animals and their habitats.)

Year 5	Earth and Space	Living Things and their	Properties and changes in	<u>Forces</u>	Animals Including Humans
	Knowledge:	<u>Habitats</u>	<u>Materials</u>	Literacy Link: The Man Who	Link: The Nowhere Emporium
	- To explain the movement of	Knowledge:	Knowledge:	Walked Between Two Towers	Knowledge:
	the Earth and other planets	-To describe the differences	- Compare and group	Knowledge:	- To describe the changes as
	relative to the sun in the solar	in the life cycles of a	together everyday materials	-To explain that unsupported	humans develop to old age.
	system.	mammal, an amphibian, an	on the basis of their	objects fall towards the Earth	Skills:
	- To explain the movement of	insect and a bird.	properties, including their	because of the force of gravity	-To research the gestation
	the moon relative to the	-To describe the life process	hardness, solubility,	acting between the Earth and the	periods of other animals and
	Earth.	of reproduction in some	transparency, conductivity	falling object.	compare them with humans.
	- To explain the Sun, Earth	plants and animals.	(electrical and thermal), and	-To identify the effects of air	- To draw a timeline to indicate
	and Moon as approximately	Skills:	response to magnets.	resistance, water resistance and	stages in the growth and
	spherical bodies.	-To observe and compare	-To know that some	friction that act between moving	development of humans.
	- Use the idea of the Earth's	the life cycles of plants and	materials will dissolve in	surfaces.	
	rotation to explain day and	animals in their local	liquid to form a solution.	-To recognise that some	
	night and the apparent	environment with other	-To describe how to recover	mechanisms including levers,	
	movement of the sun across	plants and animals around	a substance from a solution.	pulleys and gears allow a smaller	
	the sky.	the world.	-To use knowledge of solids,	force to have a greater effect.	
	Skills:	-To observe changes in an	liquids and gases to decide	Skills:	
	- To create simple models of	animal over a period of	how mixtures might be	- provide an explanation as to the	
	the solar system.	time. (Chicks)	separated including through	degrees of trust on a data set.	
	- To use tables to record	-To compare how different	filtering, sieving and	-To experience forces that make	
	planetary data and results of	animals reproduce and	evaporating.	things begin to move, get faster or	
	research.	grow.	- To demonstrate that	slow down.	
	- To produce and analyse a		dissolving, mixing and	-To explore the effects of friction	
	line graph around		changes of state are	on movement and find out how it	
	sunset/sunrise.		reversible changes.	slows or stops moving objects.	
			-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.		
			- Provide reasoned		
			justifications for their views.		
			Skills:		

	-To produce a line graph on cup insulation dataTo use a thermometer/probe and record dataTo dissolve and observe substances in liquidTo analyse the trustworthiness of data.
Y5 Enquiry Examples (Will run through the units, and it the allocated half term.)	

Y6 Enquiry Examples (Will

the allocated half term.)

run through the units, and in

Living Things and their Year 6 **Evolution and Inheritance** Electricity Light Animals Including Humans **Knowledge:** Knowledge: Knowledge: Literacy Link: The Spider and Habitats Knowledge: -Recognise that living things - To associate the brightness -To recognise that light appears to the Flv - To know how living things have changed over time and of a lamp or the volume of a travel in straight lines. Knowledge: are classified into broad that fossils provide buzzer with the number and -To use the idea that light travels in -To identify and name the main parts of the human circulatory groups according to common information about living voltage of cells used in the straight lines to explain that objects observable characteristics, things that inhabited the circuit. are seen because they give out or system. -To compare and give -To describe the functions of including micro-organisms, Earth millions of years ago. reflect light into the eye. plants and animals. -Recognise that living things reasons for variations in - To explain that we see things the heart, blood vessels - To give reasons for produce offspring of the how components function, because light travels from light and blood. same kind, but normally -To recognise the impact of classifying plants and animals including the brightness of sources to our eyes or from light based on specific offspring vary and are not bulbs, the loudness of sources to objects and then to our diet, exercise, drugs and characteristics. identical to their parents. buzzers and the on/off lifestyle on the way their bodies eyes. Skills: -Identify how animals and position of switches. -To use the idea that light travels in function. - To use classification systems plants are adapted to suit -To use recognised symbols straight lines to explain why - To describe the ways in which shadows have the same shape as and keys to identify some their environment in when representing a simple nutrients and water are animals/plants including some different ways and that circuit in a diagram. the objects that cast them. transported within animals, adaptation may lead to in the immediate Skills: Skills: including humans. environment. evolution. -To systematically identify -To explore the way that light Skills: the effect of changing one - To research unfamiliar Skills: behaves, including light sources, -To explore and answer -To research how animals reflection and shadows. animals/plants using component at a time in a questions about how the -To discuss observations and make secondary sources and decide are adapted to their specific circuit. circulatory system enables the environments using where they belong in the -To measure the brightness predictions. body to function. classification system. secondary sources. of a bulb with a data - To report on findings from -To understand how to keep - To classify leaves based on -To create models of fossils logger/light meter. enquiries, including degrees of their bodies healthy. their features. which show how an animal -To understand how their -To construct simple series trust. -To produce a scatter graph evolved. circuits, to help them to bodies might be damaged from researched data. - To explore inheritance answer questions including how some drugs and other substances can be through combining harmful to the human body. characteristics 'Mr Men' characters. - To take measurements using a range of scientific equipment with increasing accuracy and precision.

-To plan a fair test around microorganisms, recognising and controlling variables. (Also: Fair Testing)

-To explore fossils and use them to examine how an animal (eg Crocodile) has changed over time.

-To carry out an observation over time enquiry based on shadows. (Light)

Observation over time:

Pattern seeking.

- To plan a pattern seeking enquiry about the adaption and evolution of birds' feet (Evolution and Inheritance)

Identifying, classifying and grouping.

- To use classification systems and keys to identify some animals/plants including some in the immediate environment. (Living things and their habitats.)

Comparative and Fair Testing

- -To plan a fair test around microorganisms, recognising and controlling variables. (Also: changes over time)
- To plan a comparative test around eye colour, and use results to plan further comparative tests.
- -To compare a range of foot shapes using modelling and comparative tests.
- -To investigate using an illustrative fair test how the amount of volts affects the brightness of a bulb, taking repeat measurements of data with precision using a data-logger. (Electricity)
- Investigative Fair-test What affects the brightness of a bulb in a circuit? (Electricity)

Research using secondary sources

- To research unfamiliar animals/plants using secondary sources and decide where they belong in the classification system.
- -To explore fossils and use them to examine how an animal (e.g. Crocodile) has changed over time. (Adaptation)
- -To research data on various organisms using the internet. (Living things and their habitats)
- -To research how animals are suited to where they live. (Adaptation)