



Science - Curriculum Overview

Year	Subject specific	'The	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
	Vocabulary	Greats'									
Nursery	Autumn	N/A	<u>Understanding the world - The Natural World</u>								
	Hibernate		 Use all their s 	Use all their senses in hands-on exploration of natural materials							
	Tree				•						
	Leaves		·		ls with similar and/or o	aiffereni properile	5				
	Harvest		 Talk about wh 	at they see, usin	ig a wide vocabulary.						
	Acorn		 Explore how t 	hings work							
	Conker Squirrel		Plant seeds ar	nd care for growing	ina plants						
	Hedgehog			-	•	امسنسم مساسما					
	Season			•	of the life cycle of a pl						
	Winter		Begin to under	rstand the need	to respect and care fo	r the natural enviro	onment and all living thing	js –			
	Snow		 Explore and to 	alk about differe	ent forces they can fee	el					
	Ice		Talk about the	e differences be	tween materials and ch	nanges they notice					
	Freezing					g,					
	Frost		PSED - Managing se	elf							
	Melt				1 1 1 1 1 1 1 1 1 1 1 1						
	Temperature		 Make healthy 	choices about to	ood, drink, activity and	Tooth brushing					
Reception	Icicles		Understanding the w	onld - The Natura	l World		PSED - Managing self (EL	G) / DD - Health (FLG)			
Reception	Spring Bulbs										
	Daffodils		•	tural world aroun				asic hygiene and personal			
	Bean		 Describe what 	they see, hear ar	nd feel whilst outside			essing, going to the toilet the importance of healthy			
	Roots		 Recognise som 	e environments th	nat are different to the	one in which they	food choices	he importance of hearthy			
	Leaves		live				Tood choices				
	Flower		 Understand th 	e effect of chang	ging seasons on the natu	ral world around	Understanding the world	(ELG) - The Natural			
	Petals		them				<u>World</u>				
	Summer						 Explore the natural 	world around them,			
	Magnetic		PSED - Managing self	<u>f</u>			_	s and drawing pictures of			
	Non-magnetic Float			Know and talk about the different factors that support their overall animals and plants							
	Sink		health and wellbeing: regular physical activity, healthy eating, tooth brushing, sensible amounts of 'screen time', having a good sleep routine, • Know some similarities and differences between the natural world around them and								
	Shadow										
	Light		being a safe pedestrian contrasting environments, drawing on the								
	Dark		experiences and what has been rea • Understand some important proce				·				
	Names of body										
	parts						_	ural world around them,			
	Healthy						_	ns and changing states of			
	Unhealthy						matter.				





OWN MAHES					
Year 1 Animals Incl	-	Animals Including	<u>Changing</u>	Everyday Materials	<u>Plants</u>
<u>Humans</u>	Darwin	<u>Humans</u>	<u>seasons</u>	-To identify and name a variety of everyday	To identify and describe the basic structure of a
Alive		- To identify, name,	-To observe	materials, including wood, plastic, glass,	variety of common flowering plants by planting a
Animal		draw & label the	changes across	metal, water, and rock by matching a	bean.
Different		basic parts of the	the 4 seasons	material to its name.	- To ask simple questions and recognise that they
Human		human body in the	in the context	-To distinguish between an object and the	can be answered in different ways in the context of
Living		context of drawing	of the	material from which it is made by naming	considering what plants need to grow.
Non-living		& labelling a	weather.	objects and identifying the material which	- To identify and name a variety of common wild
Plant		diagram of the	-To observe	they are made from.	plants by going on a wild plant hunt.
Physical		body	and describe	-To distinguish between an object and the	- To identify and name a variety of common garden
Feature		- To say which part	how day length	material from which it is made by looking	plants in the context of drawing a garden featuring
Similar		of the body is	varies by	and touching different materials.	common garden plants.
		associated with	exploring	-To describe the simple physical properties	- To identify and name a variety of common wild and
Changing sea	<u>isons</u>	each sense in the	the average	of a variety of everyday materials by	garden plants, including deciduous and evergreen
Autumn		context of drawing	number of	testing different objects.	trees by identifying trees from their leaves.
Winter		activities that use	hours of day	-To observe closely by watching what	- To identify and classify by classifying leaves as
Summer		the sensory organs.	light in	happens to teddy.	deciduous or evergreen.
Spring		- To perform simple	autumn.	-To perform simple tests to find out which	- To identify and describe the basic structure of a
Season		tests in the	-To observe	material would be suitable to make an	variety of common flowering plants, including trees
Weather		context of	and describe	umbrella from.	by making and labelling plant pictures.
Observe		investigating each	weather	-To use their observations and ideas to	- To observe closely, using simple equipment in the
Record		of the five senses.	associated	suggest answers to questions by deciding	context of observing the growth of bean plants.
Explore		- To gather &	with the	which materials would be suitable to make	- To use their observations and ideas to suggest
		record data to help	seasons by	an umbrella from.	answers to questions by answering questions about
<u>Everyday</u>		in answering	observing the	-To compare and group together a variety	what plants need to grow.
<u>Materials</u>		questions in the	weather in	of everyday materials on the basis of their	
Dark		context of	autumn/winter.	simple physical properties by sorting	
Glass		collecting	-To gather and	objects.	
Light		information to solve	record data to	objects.	
Material		a puzzle.	help in		
Mirror		- To identify &	answering		
Pane		name a variety of	questions		
Reflect		common animals	by recording		
Reflection		including, fish,	the weather,		
Shiny,		amphibians,	temperature,		
Smooth		reptiles, birds and	rainfall and		
		mammals in the	wind		
<u>Plants</u>		context of naming	direction in		
Plant		animals.	autumn/winter		
Common		- Asking simple	-To observe		
Wild		questions &	changes across		
Garden		recognising that	the 4 seasons		
Plant		they can be	by going on an		
Identify		answered in			





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	Classify		different ways in	Autumn/winter			
			the context of	walk.			
			generating criteria	-To observe			
			for sorting animals.	and describe			
			- To describe &	how day length			
			compare the	varies in the			
			structure of a	context of			
			variety of common	autumn to			
			animals (fish,	winter.			
			amphibians,	-To observe			
			reptiles, birds &	changes across			
			mammals including	the 4 seasons			
			pets in the context	by looking at			
			of describing	how trees and			
			_	the clothes			
			pictures of common				
			animals.	that we wear			
			-To identify & name	change from			
			a variety of common	autumn to			
			animals that are	winter.			
			carnivores,				
			herbivores and				
			omnivores in the				
			context of				
			recognising if				
			animals are				
			carnivores,				
			herbivores or				
			omnivores.				
			- To identify and				
			classify in the				
			context of sorting				
			animals into				
			categories.				
Year 2	Animals including	Jane Goodall	Animals including Hur		Uses of Everyday Materials	<u>Plants</u>	Living things and their
	<u>Humans</u>		-To notice that animo	als, including	-To identify and compare the suitability of a	-To observe closely	<u>habitats.</u>
	Adult		humans, have offsprir	ng which grow	variety of everyday materials, including	using simple equipment	-To explore & compare
	Baby		into adults, by describ	bing the changes	wood, metal, plastic, glass, brick, rock,	by recording	the differences between
	Offspring		to animals as they gro		paper and cardboard for particular uses, by	observations of a	things that are living,
	Pregnancy		-To identify and class		identifying the uses of different materials.	variety of plants in the	dead, & things that have
	Hatchling		animals and animal bal		-To identify and classify the uses of	local environment.	never been alive
	Mammal		-To notice that anima	ls, including	everyday materials, in the context of the	-To observe and	by thinking about life
	Amphibian		humans, have offsprir		local area.	describe how seeds and	processes.
	Reptile		,	<i>J</i>		bulbs grow into	
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Spawn
Healthy
Muscle
Vitamin
Mineral
Hygiene
Bacteria

Everyday Materials

Wood
Metal
Plastic
Glass
Brick
Rock
Paper
Cardboard
Gather
Record
Explore
Squashing
Bending
Twisting,
Stretching

<u>Plants</u>

Solid

Plants
Observe
Seeds
Bulbs
Germinate
Grow
Life Cycle
Mature
Seedlings,
Environment
Decidious

Living things and their habitats. Habitats Life Processes

into adults, by learning about how humans grow and change.

- -To perform simple tests, by testing if children get faster as they get older.
- -To find out about and describe the basic needs of animals, including humans, for survival (water, food and air), by identifying the ways that different animals meet their basic needs.
- -To ask simple questions and recognise that they can be answered in different ways, by generating questions about a pet and researching answers.
- -To describe the importance for humans of eating the right amounts of different types of food, by exploring food groups.
- -Using their observations and ideas to suggest answers to questions, by suggesting improvements to their diet and designing their own healthy meals.
- -To describe the importance for humans of exercise, by finding out why humans need to exercise.
- -To gather and record data to help in answering questions, by recording the ways that exercise affects the body.
- -To describe the importance for humans of hygiene, by learning about good hygiene habits.
- -To observe closely, using simple equipment, by using hand lenses to observe their hands and drawing what they see.

- -To gather and record data to help in answering questions, by exploring the purposes of different objects.
- -To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses, by exploring the purposes of different objects.
 -To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching, by changing the shape of objects.
- -To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching, in the context of recycling.
 -To find out about people who have developed new materials, by learning about

John McAdam

mature plants by planting seeds and bulbs.

-To perform simple tests by setting up a comparative test to understand what plants need to germinate and grow. -To observe and

describe how seeds and

- bulbs grow into
 mature plants by
 understanding the life
 cycle of plants.
 To use their
 observations and ideas
 to suggest answers to
 questions by giving ways
 we can tell that plants
 are living things.
- To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy by comparing the growth of seedlings under different conditions.
- To gather and record data to help in answering questions by measuring the results of a comparative test. - To find out and
- To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy by

- -To use their observations & ideas to suggest answers to questions by explaining how they know something is living, dead or has never been alive.
 -To identify & name a
- variety of plants & animals in their habitats, by mapping a habitat & identifying its inhabitants. To identify, classify & sort objects into categories by sorting objects that are living, dead & have never been
- alive.

 To identify & name a variety of plants and animals in their habitats, including microhabitats by identifying minibeasts in microhabitats.
- To gather and record data to help in answering questions by investigating the preferred habitat of minibeasts.
- 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 & plants, by researching habitats & animals that live in them.
- To ask simple questions and recognise that they can be answered in different ways by asking and answering questions





STHER AND							THER OF
	Inhabitants, Classify Sort Microhabitats Minibeast					explaining what conditions plants need to grow well To use observations and ideas to suggest answers to questions by using the results of tests to suggest good conditions for growing plants for food To observe and describe how seeds and bulbs grow into mature plants by comparing the growth of seeds and bulbs To observe closely using simple equipment by measuring and recording the growth of seeds and bulbs.	about a range of different habitats. To identify that most living things live in habitats to which they are suited & describe how different habitats provide for the basic needs of different kinds of animals & plants, & how they depend on each other by considering the adaptations of animals, & how living things in a habitat depend on each other. Describe how animals obtain their food from plants & other animals, using the idea of a simple food chain, and identify & name different sources of food by making a variety of food chains.
Year 3	Animals including humans Nutrition Nutrient Diet Skeleton Muscles Forces and Magnets Force Surface Magnetic force Attract Repel pole Light Reflection	Mary Anning	Animals including humans -Identify that they cannot make their own food; they get nutrition from what they eat by comparing how plants and humans obtain foodIdentify that animals, including humans, need the right types of nutrition by examining food groups and nutrient groups Identify that animals, including humans, need the right amount of nutrition in the context of identifying differences and similarities related to simple scientific processes by grouping animals according to their diets Identify that humans and some other animals have skeletons by investigating skeleton types.	Forces and Magnets -To notice that some forces need contact between two objects by identifying the different types of forces acting on objectsTo compare how things move on different surfaces by investigating the speed of a toy car over different surfacesTo notice that magnetic forces can act at a distance and attract some	Light -To recognise that we need light in order to see things and that dark is the absence of light by taking part in a 'feely bag' investigation. -To notice that light is reflected from surfaces by choosing the most reflective material for a new book bag. -To notice that light is reflected	Plants -To identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers by labelling the parts of a plantTo explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) by investigating what plants need to grow well.	Rocks -Compare different kinds of rocks based on their appearance in the context of understanding the difference between natural and human-made rocksMaking systematic and careful observations by examining different types of rocksGroup together different kinds of rocks on the basis of their simple physical properties in the





Light source	
Surface	
Shadow	

Plants

Function
Root
Stem
Enquiry
Transported
Life cycle
Pollination
Seed formation
Seed dispersal
Seed pollination
Fertilisation

Rocks

Mary Anning
Jurassic Coast
Extinct
Ichthyosaur
Science
Dinosaur
Prehistoric
Extinct
Skeleton
Fossil
Pterosaur, Lyme
Regis

- Identify that humans and some other animals have skeletons by identifying the parts of the skeleton.
- Identify that humans and some other animals have skeletons for support, protection and movement, by focusing on skeleton types.
- Identify that humans and some other animals have muscles for movement by examining how muscles work.
- -Setting up simple practical enquiries in the context of investigating pairs of muscles.
- -Recording findings using simple scientific language by writing the results of the practical investigation.

materials and not others by sorting materials.

To compare and group materials according to whether they are magnetic by sorting materials.

-To observe how

- magnets attract or repel each other and attract some materials and not others by investigating the strength of different magnets.
- -To describe magnets as having two poles and to predict whether two magnets will attract or repel each other, depending on which poles are facing by making a compass to hunt for treasure.
- -To observe how magnets attract or repel each other and attract some materials and not others by making, playing and evaluating a magnetic game.

from surfaces by playing mirror games.

- -To recognise that light from the sun can be dangerous and that there are ways to protect our eyes by designing and advertising a pair of sunglasses or a sun hat.
 -To recognise that
- shadows are formed when the light from a light source is blocked by a solid object by investigating the best material for curtains for a baby's bedroom. -To find patterns in the way that the size of shadows change by investigating what happens when you change the distance between the object and the light source.
- -To record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables by observing and recording plant growth.
 -To report on findings from enquiries, including oral and written explanations and presentations of results and conclusions
- by presenting findings to the class.

 -To investigate the way in which water is transported within plants by observing the transport of food colouring through a flower stem.

 -To explore the part that flowers play in the
- life cycle of
 flowering plants,
 including pollination,
 seed formation
 and seed dispersal by
 understanding
 pollination and
 fertilisation.
 -To explore the part
 that flowers play in the
 life cycle of

flowering plants, including pollination, seed formation and seed dispersal by ordering and describing

the stages of the life cycle of a flowering plant.

- context of natural rocks.
- -Describe in simple terms how fossils are formed when things that have lived are trapped within rock by explaining the fossilisation process and by comparing fossils to the animals they belong to.
- -Identifying changes related to simple scientific ideas in the context of theories about fossils. (Mary Anning)
- Anning)
 -Recognise that soils are made from rocks and organic matter by explaining how soil is formed.





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Animals including

Humans Digestive system Enquiry Tooth decay Producers Predators Prey

Electricity

Generated **Appliance** Circuit Cell/s Wires Bulbs Switches Buzzers Loop Battery Conductor

States of Matter

Gas Liquid Solid Materials Temperature Celsius Sorting Describing Compare Group Investigating systematic

Sound

Vibrating Source Medium Pattern Pitch Fainter Absorbing

Animals including Humans

- -To describe the simple functions of the basic parts of the digestive system in humans in the context of identifying the parts of the digestive system.
- To describe the simple functions of the basic parts of the digestive system in humans by explaining the functions of the different parts of the digestive system.
- -To use straightforward scientific evidence to answer auestions by reading an explanation text and answering questions.
- -To identify the different types of teeth in humans and their simple functions by learning about different types of teeth.
- -To identify differences. similarities or changes related to simple scientific ideas and processes

Electricity

-To report on findings, including oral and written explanations in the context of preparing a presentation on how electricity is generated. -Identify common appliances that run on electricity by learning to distinguish between appliances that use and do not use electricity, the different types of electricity and identify how to stay safe when using electricity. -Using results to draw simple conclusions. make. predictions for new values. suggest improvements and raise further auestions. Construct a

simple series

States of Matter

- -To compare and group materials together, according to whether they are solids, liquids or gases by sorting and describing materials into solids. liquids and gases. -To compare and group materials together, according to whether they are solids, liquids or gases by investigating gases and their uses. -To observe that some materials change state when they are heated, cooled, and measure or research the temperature at which this happens in degrees Celsius by investigating how
- heating and cooling can change a material's state. -To observe that some materials change state when they are heated, cooled, and measure or research the temperature at which this happens in degrees Celsius by exploring how water can change its state to a solid, liquid or gas -To associate the rate of evaporation with temperature by investigating the

Sound -To identify how sounds are made. associating some of the with something vibrating, by identifying and explaining sound sources around school -To identify how sounds are made, associating some of them with something vibrating, by performing a dramatized of how sounds travel -To find patterns between the volume of a sound and the strength of the vibration that produced it, by performing a dramatisation of how sound travels. -To recognise that vibrations from sounds travel through a medium to the ear, by exploring how high and low sounds are

created. -To find patterns between the pitch of a sound and features of the object that produced it, by exploring and

Living things and their habitats

- -To recognise that living things can be grouped in a variety of ways by sorting living things into a range of groups.
- -Gathering, recording, classifying, and presenting data in a variety of ways to help in answering questions by using a range of methods to sort and group living things.
- To explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment by generating questions to sort vertebrates in classification key. -Identifying differences, similarities or changes related to simple scientific ideas and processes by identifying vertebrates by their similarities and differences.
- -To explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment by creating classification kevs.
- -Gathering recording, classifying and presenting data in a variety of ways to help in answering questions by creating tables and keys showing the characteristics of living things.
- -To recognise that environments can change and that this can sometimes pose danger to living things by identifying changes and dangers in the local habitat
- -Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and table by recording observations on a map and in a
- -To recognise that environments can change and that this can sometimes pose dangers to living things by learning about environmental dangers and endangered species.
- -Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions by writing about and orally presenting findings from research.





Per	formance
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Living things and their habitats

Vertebrates Similarities Differences Endangered Species Grouping Recording Classifying Gathering Presenting Classification

- by comparing human and animal teeth.
- -To ask relevant questions and use different types of scientific enquiries to answer them by distinguishing between scientific and non-scientific questions and choosing between types of scientific enquiry.
- -To set up simple practical enquiries, comparative and fair tests by setting up an enquiry or test to understand what causes tooth decay.
- -To make systematic and careful observations by observing the changes that occur in their enquiry or test.
- -To use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions by presenting findings, making predictions and raising questions about results.

electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. 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

if the circuit

is complete.

-Construct a

simple series

identifying and

its basic parts,

including cells,

wires, bulbs,

switches and

systematic and

observations

and, where

buzzers.

Making

careful

electrical

circuit,

naming

on drying washing. -To make systematic, careful and accurate observations and measurements and report on finding from enquiries by displaying results and conclusions by investigate the effect of temperature on drying washing. - To identify the part played by evaporation and condensation in the water cycle by creating a model of the water cycle. with a battery by visualising and testing circuits to see

effect of temperature

creating musical instruments and explaining how they change pitch. - To recognise that sound get fainter as the distance from the sound source increases, by exploring how sounds change over distance. -To recognise that vibrations from sounds travel through a medium to the ear, by making string telephones.

- -To recognise that vibrations from sounds travel through a medium to the ear, by investigating the best material for absorbing sound. - To recognise
- that vibrations from sounds travel through a medium to the ear by making a musical instrument and explaining how it works.
- -To find patterns between the pitch of a sound and features of the object that produced it, by

making a musical





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-To construct and	appropriate,	instrument and	
interpret a variety	taking	explaining how it	
of food chains,	accurate	works.	
identifying	measurements		
producers,	using standard		
predators and prey	units,		
by understanding	using a range		
food chains and the	of equipment,		
role of different	including		
plants and animals	thermometers		
within them.	and data		
	loggers.		
	-Recognise		
	some common		
	conductors and		
	insulators, and		
	associate		
	metals with		
	being good		
	conductors by		
	testing		
	different		
	materials as		
	part of a		
	circuit to see		
	whether or not		
	they conduct		
	electricity.		
	-Construct a		
	simple series		
	electrical		
	circuit,		
	identifying and		
	naming		
	its basic parts,		
	including cells,		
	wires, bulbs,		
	switches and		
	buzzers.		
	Recognise that		
	a switch opens		
	and closes a		
	circuit and		
	associate		





	 	OND MAHTA
this with		
whether or not		
a lamp lights in		
a simple series		
circuit by		
creating		
circuits which		
contain a		
switch.		
-Construct a		
simple series		
electrical		
circuit,		
identifying and		
naming		
its basic parts,		
including cells,		
wires, bulbs,		
switches and		
buzzers.		
Recording		
findings using		
simple		
scientific		
language,		
drawings,		
labelled		
diagrams,		
keys, bar		
charts, and		
tables.		
-Reporting on		
findings from		
enquiries,		
including oral		
and written		
explanations,		
displays or		
presentations		
of results and		
conclusions		
in the context		
of making and		
investigating		





OND HAHLA							A HARLE
				different			
				switches.			
Year 5	Animals including	Carl Linnaeus	Animals including	Forces	Properties and	Earth and space	Living things and their habitats
	Humans	Jane Goodall	Humans	-To explain	changes of materials	-Describing the	-To describe the life process of reproduction in
	Describe		-Describe the	that	-To compare and group	Sun, Earth and	some plants and animals exploring sexual
	Stages		changes as humans	unsupported	together everyday	Moon as	reproduction in plants.
	Development		develop to old age	objects fall	materials on the basis	approximately	-To describe the life cycle of a mammal by
	Bar Graph		by drawing a	towards the	of their properties,	spherical bodies	exploring the life cycles of mammals in different
	Line Graph		timeline to indicate	Earth because	including their	by understanding	habitats.
	Puberty		stages in the	of the force	hardness,	how this	-To describe the life process of reproduction in
	Gestations Period		growth and	of gravity	transparency and	knowledge has	some plants and animals by describing sexual
	Life Expectancy		development of	acting between	response to magnets	been attained.	reproduction in mammals.
	- , , ,		humans.	the Earth and	by sorting and	-Identifying	-To describe the life process of reproduction in
	Forces		-Describe the	the falling	classifying materials	scientific evidence	some plants and animals by exploring Jane Goodall's
	Gravity		changes as humans	object by	to their properties.	that has been	work with chimpanzees.
	Force		to develop to old	identifying	-To give reasons,	used to support or	-To describe the differences in the life cycles of
	Resistance		age in the context	forces acting	based on evidence	refute ideas or	an amphibian and an insect by exploring complete
	Friction		of the development	on objects.	from comparative and	arguments in the	and incomplete metamorphosis.
	Mechanism		of babies in their	-To identify	fair tests for the	context of how	-To describe the differences in the life cycles of a
			first year.	the effects of	particular uses of	ideas changed	mammal, an amphibian, an insect and a bird by
	Properties and		-Record data and	air resistance,	everyday materials,	from a flat earth	describing and comparing different life cycles,
	changes of		results of	water	including metals, wood	view.	including birds.
	materials		increasing	resistance and	and plastic by	-Describing the	
	Hardness		complexity using	friction by	investigating thermal	movement of the	
	Transparency		bar and line graphs	identifying	conductors and	Earth, and other	
	Magnet		in the context of	forces acting	insulators.	planets, relative	
	Sorting		the growth of	on objects.	-To compare and group	to the Sun in the	
	Classifying		babies in height	-To explain	together everyday	solar system by	
	Comparative		and/or weight	that	materials on the basis	learning the order	
	Fair test		during their first	unsupported	of their thermal	of the plants and	
	Thermal conductors		year after birth.	objects falling	conductivity by	how they move in	
	Insulators		-Describe the	towards the	investigating thermal	the solar system.	
	Conductivity		changes as humans	Earth because	conductors and	-Describe the	
	Dissolve		develop to old age	of the force	insulator.	movement of the	
	Solution		by comparing the	of gravity	-To give reasons,	Earth, and the	
	Solubility		changes that take	acting between	based on evidence	planets, relative	
	Coldbillity		changes mar ruke	acting between	basea on evidence	pianers, relative	





Separated
Filtering
Sieving
Evaporating
Reversible
Irreversible

Earth and Space

Constellation
Eclipse
Orbit
Solar System
Galaxy
Spherical
Geocentric
Heliocentric

Living things and their habitats

Sexual reproduction Mammal Habitat Amphibian Metamorphosis. Life cycles place to boys and girls during puberty. -Describe the changes as humans develop to old age by understanding the changes that take place in old age. -Report findings from enquiries, including oral and written explanations of results in the context of the gestation period for animals. -Record data and results of increasing complexity using bar and line graphs, and models in the context of comparing gestation periods and life expectancies of animals. -Reporting and presenting findings from enquiries, including casual relationships by analyzing data on gestation periods and life expectancies of animals.

the Earth and the falling object by measuring the force of gravity pulling on objects. -To identify the effects of air resistance by investigating the best parachute to slow a person down. -To identify the effects of water resistance by creating and racina streamlined boats. -To identify the effects of friction by investigating brakes. -To recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect by exploring and designing a simple

mechanism.

from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic by investigating the best electrical conductors. -To know that some materials will dissolve in liquid to form a solution by investigating dissolving. -To compare and group together every day materials on the basis of their solubility by investigating dissolving. -To use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating by separating different mixtures. -To demonstrate that dissolving, mixing and changes by separating different mixtures. -To describe how to recover a substance from a solution by separating different mixtures. -To explain that some changes result in the formation of new

materials, and that

this kind of change is

to the Sun in the solar system by examining the geocentric and heliocentric theories. -Identifying scientific evidence that has been used to support or refute ideas or arguments in the context of the shift from heliocentric models of the solar system to geocentric models. -Using the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky by examining why the sun appears to move and the arguments for the Earth's rotation. -Identifying scientific evidence that has been used to support or refute ideas or arguments in the context of the evidence for the Farth's rotation. -Using the idea of the Earth's rotation to explain day and night and the apparent





Year 6 Animals including Humans Charles Darwin Human body and lacked to progress where the prospect of the including variables Policy Pulse Pu	ONL HEHLAD							OND HEHRE
Humans Circulatory system Bload vessels Lifestyle Variables Repeat Enquiry Pulse Variable Drugs Smoking alcohol Electricity Electricity Electricity Circuit Symbol Volt Buzzer Component Circulatory system Component Component Component Component Component Component Component Component Circulatory system Circulatory system Circulatory system Circulatory system work. Component Circulatory system Circulator					including changes associated with burning and the action of acid on bicarbonate of soda by identifying and observing irreversible chemical	Sun across the sky by predicting night and day in different places on EarthReporting and presenting findings from enquiries, including conclusions, in oral and written forms such as displays and other presentations in the context of investigating night		
Reflect function by effect of explaining how it lead to evolution by to common observable	Year 6	Humans Circulatory system Blood vessels Lifestyle Variables Repeat Enquiry Pulse Variable Drugs Smoking alcohol Electricity Electricity Circuit Symbol Volt Buzzer Component	 Humans -To identify and name the main parts of the human circulatory system by recalling prior knowledge of systems in the human body and labelling a diagram To describe the functions of the heart, blood vessels and blood by investigating how the different parts of the circulatory system work To recognise the impact of diet and exercise on the way their bodies	-Identifying scientific evidence that has been used to support or refute ideas or arguments in the context of the major discoveries made by scientists in the field of electricityUse recognised symbols when representing a simple circuit in a diagram by observing and explaining the	- To recognise that light in straight lines by creating a model of light -To use the idea that lig straight lines to explain seen because they give of into the eye by creating travelling. -To explain that we see travels from light sources to our eyes sources to objects and then to our eyes by documentary. -To recognise that light straight lines by investigating the angles reflection. -To use the idea that light straight lines to explain seen because they give of into the eye by creating	t travelling. that objects are but or reflect light a model of light things because light s or from light creating a light appears to travel in of incidence and that objects are but or reflect light	Inheritance -Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents in the context of inheritanceIdentify how animals and plants are adapted to suit their environment in different ways in the context of environmental variation Identifying scientific evidence that has been used to support or refute ideas or arguments; Identify how adaptation may	habitats -To give reasons for classifying plants and animals based on specific characteristics in the context of sorting and grouping animals for a zoo. -To describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals by finding out about the Linnaean System of classification. -To describe how living





Sources Incidence Reflection Periscope

Evolution and Inheritance

Offspring
Identical
Inheritance
Adapted
Evolution
Darwin
Wallace
Fossils
Inhabit

Living things and their habitats

Microorganisms
Linnaean System
Mammal
Reptile
Amphibians
Arachnids
Annelids
Crustaceans
Echinoderms
Molluscs

describing the effects of a healthy lifestyle. - To plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurement with increasing accuracy and precision, taking repeat readings when appropriate by creating an enquiry that compares and categorises different forms of exercise and by taking accurate pulse measurements to gather data. - To record data and results of increasina complexity using classification keys. tables, scatter graphs, bar and line graphs. -To report findings from enquiries, including conclusions and degree of trust in results, in written forms by reporting and presenting the

findings of their

enquiry.

different volts in a circuit. -Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit by observing and explaining the effect of different volts in a circuit. -Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. -Recording data and results of increasing complexity using scientific diagrams and labels classification

keys, tables,

graphs. Bar

scatter

and line

graphs.

works.

-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 by creating a periscope and explaining how it works. examining the theories of evolution constructed by Darwin and Wallace.

- -Identifying scientific evidence that has been used to support or refute ideas or arguments; Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago in the context of the evolution of plants and animals.
- -Identifying scientific evidence that has been used to support or refute ideas or arguments; Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago in the context of the evolution of human beings.
- -Identify how adaptation may lead to evolution by examining the advantages and disadvantages of specific adaptations and the role of human intervention in the process of evolution.

characteristics and based on similarities and differences, including micro-organisms, plants and animals by identifying the characteristics of mammals, birds, insects, reptiles, amphibians, fish, arachnids, annelids crustaceans, echinoderms and molluscs.

- -To give reasons for classifying plants and animals based on specific characteristics by exploring unusual creatures and designing their own curious creature.
- -To describe how living things are classified into broad groups according to common observable characteristics based on similarities and differences, including micro-organisms, plants and animals by exploring helpful and harmful micro-organisms.
 -To describe how living
- things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals by grouping organisms found in local habitat.





			MER AL
- To recognise the	-Reporting and		-To give reasons for
impact of drugs on	presenting		classifying plants and
the way their	findings from		animals based on
bodies function in	enquiries,		specific characteristics
the context of	including		by creating a field guide
drugs and alcohol.	conclusions,		to the organisms found
- To identify	casual		in the local habitat.
scientific evidence	relationships		
that has been used	and		
to support or	explanations		
refute ideas or	of and degree		
arguments in the	of trust in		
context of changing	results, in oral		
attitudes to	and written		
smoking.	forms such as		
3	displays and		
	other		
	presentations		
	by conducting		
	an		
	investigation,		
	presenting and		
	report findings		
	on the effect		
	of wire length		
	on the		
	brightness of		
	bulbs or the		
	loudness of		
	buzzers.		
	-Compare and		
	give reasons		
	for variations		
	in how		
	components		
	function,		
	including the		
	brightness of		
	bulbs, the		
	loudness of		
	buzzers and		
	the on/off		
	position of		
	switches.		





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	- Using test	
	results to	
	make	
	predictions to	
	predictions to set up further	
	comparative	
	and fair tests	
	by planning and	
	conducting a	
	further	
	investigation.	