WRENINGHAM VC PRIMARY - CURRICULUM KNOWLEDGE AND KEY SKILLS PROGRESSION



INTENT

At Wreningham we teach science following the 2014 national curriculum and we intend to

- Stimulate curiosity, awe and wonder of the scientific world.
- Encourage the children to ask WHY!
- Give the children the thinking and practical skills to be effective scientists.
- Develop scientific knowledge and conceptual understanding of the physical and natural world.
- Equip children with accurate scientific vocabulary and the ability to use it effectively.
- Develop critical thinking skills in relation to the physical and natural world around them.

IMPLEMENTATION

- The acquisition of key scientific knowledge is an integral part of our science lessons.
- Science will be taught in planned blocks by the class teacher.
- We teach specific scientific vocabulary for each science topic.
- Previous related topic vocabulary is recapped.
- We provide problem solving opportunities and give children the chance to ask their own questions and use their scientific skills and research to discover the answers.
- Teachers demonstrate how to use scientific equipment and working scientifically skills are embedded into lessons.
- Our curriculum is progressive. We build upon the learning and skills development of the previous years.
- Through enrichment days and LOtC, we promote the profile of science and create a culture of scientific enquiry.

IMPACT

- Children will have a love of science and be absorbed in their learning.
- Children will be able to demonstrate their scientific knowledge and skills with confidence.
- Most children will achieve at least age-related expectations.
- Children will be equipped with the skills and knowledge to progress confidently to KS3.
- Children will be confident in using scientific vocabulary.
- Children will be able to question scientific ideas and reflect on knowledge.

HOW THE SCIENCE CURRICULUM HELPS DELIVER OUR SCHOOL VALUES

Stewardship, compassion, service

Stewardship - the school through its science curriculum and ECO schools work, supports pupils to learn how to help our planet be more sustainable and fair. The school has promoted environmental stewardship, developing science through ECO school activities. The school has developed a nature trail and a pond that supports pupils to learn about habitats, plants and animals, and to appreciate biodiversity.

Service - children learn about human impact, both positive and negative, and in its eco-school's work, issues such as litter, re-cycling, waste, transport and walking to school are considered. Children learn about the responsibility we have for our world and all its people.

Compassion - children are encouraged to show compassion, learning about ethical issues such as fair trade, or the need to not waste water and the worldwide problems caused by the lack of clean water. Children are encouraged to be active in problem solving and developing solutions.

Nati	onal Curriculum Statutory requirements		Units
	Pupils should be taught to:	Everyday materials	Year 1/2 cycle 1
	<u>Plants</u>	-Distinguish between an object and the material from which it is	Animals including humans
	-Identify and name a variety of common wild and	made	Living Things & their Habitats
	garden plants, including deciduous and evergreen	-Identify and name a variety of everyday materials, including wood,	Everyday Materials
	trees	plastic, glass, metal, water, and rock	Plants
	-Identify and describe the basic structure of a variety	-Describe the simple physical properties of a variety of everyday	Animals including humans
	of common flowering plants,	materials	
	including trees	-Compare and group together a variety of everyday materials on the	
	Animals, including humans	basis of their simple physical properties	
	-Identify and name a variety of common animals	<u>Seasonal changes</u>	
1	including fish, amphibians, reptiles,	-Observe changes across the four seasons	
Year	birds and mammals	-Observe and describe weather associated with the seasons and	
>	-Identify and name a variety of common animals that	how day length	
	are carnivores, herbivores and	varies	
	omnivores		
	-Describe and compare the structure of a variety of		
	common animals (fish,		
	amphibians, reptiles, birds and mammals, including		
	pets)		
	-Identify, name, draw and label the basic parts of the		
	human body and say which part of the body is		
	associated with each sense.		

	National Curriculum Statuto	ry requirements	Units
Year 2	Pupils should be taught to: Living things and their habitats Explore and compare the differences between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Identify and name a variety of plants and animals in their habitats, including microhabitats -Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food Plants -Observe and describe how seeds and bulbs grow into mature plants -Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Animals, including humans	-Notice that animals, including humans, have offspring which grow into adults -Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) -Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene Uses of everyday materials -Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses -Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Year 1/2 cycle 2 Seasonal Changes Use of Everyday Materials Animals including humans Living Things & their Habitats Plants

	National Curriculum Statuto	ory requirements	Units
	Pupils should be taught to:	-Recognise that soils are made from rocks and organic	Year 3/4 cycle 1
	<u>Plants</u>	matter	States of Matter
	-Identify and describe the functions of different parts of flowering	Light	Electricity
	plants: roots,	-Recognise that they need light in order to see things and	Rocks
	stem/trunk, leaves and flowers	that dark is the absence of light	Holt Hall
က	-Explore the requirements of plants for life and growth (air, light,	-Notice that light is reflected from surfaces	Living Things & their Habitats
Year	water, nutrients from soil, and room to grow) and how they vary	-Recognise that light from the sun can be dangerous and	Animals including Humans
\ \-	from plant to plant	that there are ways to protect their eyes	
5 2	-Investigate the way in which water is transported within plants	Recognise that shadows are formed when the light from a	
stage	-Explore the part that flowers play in the life cycle of flowering	light source is blocked by an opaque object	
st	plants, including	-Find patterns in the way that the size of shadows change	
key	pollination, seed formation and seed dispersal	Forces and Magnets	
<u>-</u>	Animals, including humans	- compare how things move on different surfaces	
Lower	-Identify that animals, including humans, need the right types and	-Notice that some forces need contact between two objects,	
2	amount of nutrition, and that they cannot make their own food;	but magnetic forces can act at a distance	
	they get nutrition from what they eat	-Observe how magnets attract or repel each other and	
	-Identify that humans and some other animals have skeletons and	attract some materials and not others	
	muscles for	-Compare and group together a variety of everyday	
	support, protection and movement	materials on the basis of whether they are attracted to a	
	Rocks	magnet, and identify some magnetic materials	

-Compare and group together different kinds of rocks on the basis of	-Describe magnets as having two poles	
their appearance and simple physical properties	-Predict whether two magnets will attract or repel each	
-Describe in simple terms how fossils are formed when things that	other, depending on which	
have lived are	poles are facing	
trapped within rock		

Science

	National Curriculum Statuto	ry requirements	Units
	Living things and their habitats	vary and are not identical to their parents	Year 5/6 cycle 2
	-Describe how living things are classified into broad groups	-Identify how animals and plants are adapted to suit their	Earth and Space
	according to common	environment in different	Forces
	observable characteristics and based on similarities and differences,	ways and that adaptation may lead to evolution	Living things and habitats (y5)
	including microorganisms, plants and animals	<u>Light</u>	Animals including humans (y5)
	-Give reasons for classifying plants and animals based on specific	-Recognise that light appears to travel in straight lines	
	characteristics	-Use the idea that light travels in straight lines to explain	
9	Animals, including humans	that objects are seen	
	-Identify and name the main parts of the human circulatory system,	because they give out or reflect light into the eye	
Year	and describe the	-Explain that we see things because light travels from light	
2 -	functions of the heart, blood vessels and blood	sources to our eyes or from light sources to objects and then	
	-Recognise the impact of diet, exercise, drugs and lifestyle on the	to our eyes	
stage	way their bodies	-Use the idea that light travels in straight lines to explain	
s >	function	why shadows have the same shape as the objects that cast	
key	-Describe the ways in which nutrients and water are transported	them	
Jer	within animals,	<u>Electricity</u>	
Upper	including humans	-Associate the brightness of a lamp or the volume of a	
_	Evolution and inheritance	buzzer with the number and	
	-Recognise that living things have changed over time and that fossils	voltage of cells used in the circuit	
	provide	-Compare and give reasons for variations in how	
	information about living things that inhabited the Earth millions of	components function, including the	
	years ago	brightness of bulbs, the loudness of buzzers and the on/off	
	-Recognise that living things produce offspring of the same kind, but	position of switches	
	normally offspring	-Use recognised symbols when representing a simple circuit	
		in a diagram	

SUBSTANTIVE KNOWLEDGE

Knowledge & Understanding

Year 1/2	BI: That all living things have a life cycle. KQ: How does a life cycle work? NC Unit: Animals including humans -Identify and name different animals including humansidentify name, draw and label the basic parts of the human body -Say which parts is associated with the senses Notice that animals including humans have offspring that grow into adults -Find out about and describe the basic needs of animals including humans for survival -Describe how to be healthy and live a healthy lifestyle. (exercise, food, hygiene)	BI: Materials are used in different ways according to their properties KQ: How do you know a material is fit for purpose? Everyday Materials -identify and name different materials according to properties (sorting games/activities) -Group materials depending on their properties -begin to talk about how materials are used -give reasons why materials are used.	NC Unit: Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do. KQ: How do you identify trees and plants? -Identify and describe the structure of a variety of common flowering plants and treesKnow there are different varieties of plants, but they all have common features -identify and name a variety of wild and garden plants including deciduous and evergreen trees	NC Unit: Living Things & their Habitats BI: Organisms including plants and animals have characteristics that make it possible for them to survive in their habitat KQ: How have animals adapted to their habitats? -Name common animals including fish, mammals, amphibians, birds and reptiles -Identify that most living things live in habitats to which they are suitedDescribe how different habitats provide the basic needs of different kinds of animals and plants and how they depend on each other.
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NC Unit - Seasonal Changes (unit coverage taught	NC Unit - Animals	Everyday Materials	NC Unit - Living Things & their	NC Unit Plants			
ongoing throughout the year)	including humans	The arrangement,	Habitats	BI: That there is a significant			
Big Idea: The Earth is one of eight planets that orbit	Big Idea: The different	movement and type of	Big Idea: The different kinds of	difference between being			
the sun. The Earth is tilted and spins on its axis	kinds of life, animals,	the building blocks of	life, animals, plants and	dead and never having been			
leading to day and night, the seasons and the climate.	plants and	matter and the forces	microorganisms, have evolved	alive.			
KQ: How does the weather differ across the year?	microorganisms, have	that hold them together	over millions of generations	KQ: What is alive, dead or			
	evolved over millions	or push them apart	into different forms in order to	was never alive?			
-identify changes across the 4 seasons (observations)	of generations into	explain all the properties	survive in the environments in	-Observe and describe how			
-Observe and describe the weather linked with the	different forms in order	of matter. (hot/cold,	which they live.	seeds and bulbs grow into			
seasons and how the length of the day changes	to survive in the	soft/hard, light/heavy	KQ: Can living things stay	mature plants			
-identify suitable clothes for each season	environments in which	etc)	healthy and live forever?	-plant and grow flowers and			
- track seasonal changes to rainfall/tree growth	they live.	KQ: Are all changes to	Explore and compare the	plants from seeds			
	KQ What other types of	materials reversible?	differences between things that	-Find out about and describe			
Animals including humans	living things are there?	-Know how shapes of	are living, dead and never been	what a plant needs to grow			
Big Idea: The different kinds of life, animals, plants	-identify and name a	materials can be changed	alive	and stay healthy Use of			
and microorganisms, have evolved over millions of	variety of common	by stretching, bending,	Identify that most living things				
generations into different forms in order to survive in	animals that are	twisting and stretching.	live in habitats to which they				
the environments in which they live.	carnivores, herbivores,		are suited.				
KQ What other types of living things are there?	and omnivores.		Describe how different habitats				
-identify and name a variety of common animals that	- Begin to separate		provide the basic needs of				
are carnivores, herbivores, and omnivores.	animals based on their		different kinds of animals and				
- Begin to separate animals based on their structure	structure (has wings		plants and how they depend on				
(has wings does not have wings, has 0 legs, 2 legs 4	does not have wings,		each other.				
legs or more than 4 legs)	has 0 legs, 2 legs 4 legs		Identify and name a variety of				
Use names reptile, insect, amphibian, birds, mammals.	or more than 4 legs)		plants and animals in their				
	Use names reptile,		habitats including micro				
	insect, amphibian,		habitats.				
	birds, mammals.		Describe how animals get their				
			food from plants and other				
			animals- explore food chains.				
Cycle A Cycle A	Cycle A	Cycle A	Cycle A	Cycle A			
States of Matter Electricity	Rocks	Rocks	Animals including Humans	Living Things & their Habitats			
Key question: Is water Key question: what pieces	Key question: Are rocks	Key question: Are rocks	(Year 4)	Key question: How can living			
always wet? of equipment might you	all the same?	all the same?	Key question: What do our	things be grouped?			
Big idea: All matter in use to make an electrical	Big idea: Through	Big idea: Through	bodies do with the food we	Big idea: Recognise that			
the universe is made of circuit?	observing and	observing and	eat?	living things can be grouped			
very small particles. Big idea: you need	investigating properties	investigating properties	Big Idea: Food is a source of	in a variety of ways.			
very small particles. Big idea: you need electricity to make electrical circuits work and	we create scientific	we create scientific	energy. All animals need food	Classifying and grouping			
	groups.	groups.	to provide energy.	things can help support our			
materials together, this impacts on our				scientific understanding.			
according to whether everyday lives.	1.Three main types of	1.Compare and group	1.Describe the simple functions				
they are solids, liquids	rocks (igneous,	together different kinds	of the basic parts of the	1.Recognise that living things			
or gases. 1.Identify common	metamorphic,	of rocks on the basis of	digestive system.	can be grouped in a variety of			
appliances that run on	sedimentary) and how	their appearance and		ways.			
electricity.	they are formed.	simple physical					

2.Observe that some materials change state they are heated or	2.Construct a simple series electrical circuit, identifying and naming its basic parts,	2.Describe in simple terms how fossils are	properties (Aylmerton Residential – beach walk).	2.Identify the different types of teeth in humas and their simple function.	2.Explore and use classification keys to help group, identify and name a
•	•		waikj.	Turiction.	
cooled, and measure or	including cells, writes,	formed when things			variety of living things in their
research the	bulbs, switches and	that have lived are	2.Recognise that soils are	3.Construct and interpret a	local and wider environment.
temperature at which	buzzers.	trapped within rock.	made from rocks and	variety of food chains,	
this happens in degrees	3.Identify whether or not a		organic matter.	identifying producers,	3.Recognise that
Celsius.	lamp will light in a simple	Borrow 'Deep History		predators, prey.	environments can change
	series circuit, based on	Coast Handling Box'			and that this can sometimes
3.Identify the part	whether or not the lamp is	from Cromer Museum.		4.Extra vocabulary: herbivore,	pose dangers to living things.
played by evaporation	part of a complete loop			omnivore, carnivore.	
and condensation in	with a battery.				
the water cycle and	4.Recognise that a switch				
associate the rate of	opens and closes a circuit				
evaporation with	and associate this with				
temperature.	whether or not a lamp				
	lights in a simple series				
	circuit.				
	5.Recognise some common				
	conductors and insulators,				
	and associate metals with				
	being good conductors.				
Cycle B	Cycle B	Cycle B	Cycle B	Cycle B	Cycle B
Forces and Magnets	Animals	Sound	How Hill: Living Things &	Cycle B Plants	Cycle B Light
Forces and Magnets Big Idea: Matter is all	Animals Including Humans	Sound Big Idea: Both light and	How Hill: Living Things & their Habitats	Plants Big Idea: There is a	Light Big Idea: Dark is the absence
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in	Animals Including Humans Big Idea: Food is a source	Sound Big Idea: Both light and sound are forms of	How Hill: Living Things & their Habitats Link to local environment.	Plants Big Idea: There is a relationship between structure	Light Big Idea: Dark is the absence of light.
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces	Animals Including Humans Big Idea: Food is a source of energy. All animals need	Sound Big Idea: Both light and sound are forms of energy that move in	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that	Plants Big Idea: There is a relationship between structure and function - every flower	Light Big Idea: Dark is the absence of light. KQ: What is the dark?
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces are different kinds of	Animals Including Humans Big Idea: Food is a source of energy. All animals need food to provide energy.	Sound Big Idea: Both light and sound are forms of energy that move in waves. Understanding	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that living things can be	Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do.	Light Big Idea: Dark is the absence of light. KQ: What is the dark? -Recognise that we need light
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces are different kinds of pushes and pulls that	Animals Including Humans Big Idea: Food is a source of energy. All animals need food to provide energy. KQ: How do living things	Sound Big Idea: Both light and sound are forms of energy that move in waves. Understanding waves helps us to	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that	Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do. KQ: What do living things need	Light Big Idea: Dark is the absence of light. KQ: What is the dark? -Recognise that we need light in order to see things and
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces are different kinds of pushes and pulls that act on all the matter	Animals Including Humans Big Idea: Food is a source of energy. All animals need food to provide energy. KQ: How do living things work?	Sound Big Idea: Both light and sound are forms of energy that move in waves. Understanding waves helps us to communicate, explore	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that living things can be	Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do.	Light Big Idea: Dark is the absence of light. KQ: What is the dark? -Recognise that we need light in order to see things and that dark is the absence of
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces are different kinds of pushes and pulls that act on all the matter that is in the universe.	Animals Including Humans Big Idea: Food is a source of energy. All animals need food to provide energy. KQ: How do living things work? - Identify that animals,	Sound Big Idea: Both light and sound are forms of energy that move in waves. Understanding waves helps us to communicate, explore the universe, and	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that living things can be grouped in a variety of ways	Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do. KQ: What do living things need to survive?	Light Big Idea: Dark is the absence of light. KQ: What is the dark? -Recognise that we need light in order to see things and that dark is the absence of light.
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces are different kinds of pushes and pulls that act on all the matter that is in the universe. KQ: What can magnets	Animals Including Humans Big Idea: Food is a source of energy. All animals need food to provide energy. KQ: How do living things work? - Identify that animals, including humans, need the	Sound Big Idea: Both light and sound are forms of energy that move in waves. Understanding waves helps us to communicate, explore the universe, and transfer energy to	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that living things can be grouped in a variety of ways -Big Idea: Classifying and	Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do. KQ: What do living things need to survive? -Identify and describe the	Light Big Idea: Dark is the absence of light. KQ: What is the dark? -Recognise that we need light in order to see things and that dark is the absence of lightNotice that light is reflected
Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces are different kinds of pushes and pulls that act on all the matter that is in the universe. KQ: What can magnets do?	Animals Including Humans Big Idea: Food is a source of energy. All animals need food to provide energy. KQ: How do living things work? - Identify that animals, including humans, need the right types and amount of	Sound Big Idea: Both light and sound are forms of energy that move in waves. Understanding waves helps us to communicate, explore the universe, and	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that living things can be grouped in a variety of ways -Big Idea: Classifying and grouping things can help	Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do. KQ: What do living things need to survive? -Identify and describe the functions of different parts of	Light Big Idea: Dark is the absence of light. KQ: What is the dark? -Recognise that we need light in order to see things and that dark is the absence of lightNotice that light is reflected from surfaces.
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Forces and Magnets Big Idea: Matter is all the stuff, or mass, in the universe. Forces are different kinds of pushes and pulls that act on all the matter that is in the universe. KQ: What can magnets do? -Compare how things move on different surfaces	Animals Including Humans Big Idea: Food is a source of energy. All animals need food to provide energy. KQ: How do living things work? - Identify that animals, including humans, need the right types and amount of nutritionIdentify that animals, including humans, cannot	Sound Big Idea: Both light and sound are forms of energy that move in waves. Understanding waves helps us to communicate, explore the universe, and transfer energy to where we want it. KQ: How do we hear different sounds?	How Hill: Living Things & their Habitats Link to local environment. Big idea: recognise that living things can be grouped in a variety of ways -Big Idea: Classifying and grouping things can help support our scientific understanding	Plants Big Idea: There is a relationship between structure and function - every flower part has a job to do. KQ: What do living things need to survive? -Identify and describe the functions of different parts of flower plants: roots, stem/trunk, leaves and flowers.	Light Big Idea: Dark is the absence of light. KQ: What is the dark? -Recognise that we need light in order to see things and that dark is the absence of lightNotice that light is reflected from surfacesRecognise that light from the sun can be dangerous and that there are ways to
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	materials and not		-Find patterns between	in their wider	-Explore the part that flowers	
	others.		the pitch of a sound and	environment	play in the life cycle of	
	-Compare and group		features of the object	- How Hill activity: Dyke	flowering plants, including	
	together a variety of		that produced it.	Dipping (catching water	pollination, seed formation and	
	everyday materials on		-Find patterns between	invertebrates and work	seed dispersal.	
	the basis of what they		the volume of a sound	out what they are).		
	are attracted to a		and the strength of the			
	magnet, and identify		vibrations that			
	some magnetic		produced it.			
	materials		-Recognise that sounds			
	-Describe magnets as		get fainter as the			
	having two poles.		distance from the			
	-Predict whether two		sound source			
	magnets will attract or		increases.			
	repel each other,					
	depending on which					
	poles are facing.					
	NC Unit Light	NC Unit Electricity	NC Unit Animals incl.	NC Unit Properties and	NC Unit Evolution and	NC Unit Living things and
	Big Idea: We can use	Big Idea: Planning and	humans(y6)	changes of materials(y5)	inheritance	their habitats (y6)
	evidence found in	carrying out an enquiry by	Big Idea: Recording	Big Idea: Carrying out a	Big Idea: Time can affect how	Big Idea: Classifying and
	practical experiments	changing a variable can	data and results in	fair test ensures that	living things can change in	grouping things can help
	to support an idea in	answer a scientific	different ways can help	results are more	more, or less significant ways.	support our scientific
	science	question	explain our findings in	accurate		understanding
			a scientific enquiry		KQ: Why may the offspring of	
	KQ: Are there rules	KQ: How does changing a		KQ: How do different	living things be different from	KQ: Why are certain
	which govern how light	circuit affect what is	KQ: How does exercise	materials react and	their parents	characteristics significant in
	works?	observed?	affect how the human	change when subjected		creating classification groups
			body operates	to different processes	Recognise that living things	
	Prove light travels in				have changed over time – look	Learn how living things are
Year 5/6	straight lines using	Learn what ectricity is and	– circ. system/health		at fossils and learn how they	classified into broad groups
a	pinhole camera designs.	how is it related to	Learn about circulatory	Compare and group	are made	according to common
Ye	Show how shadows are	electrons	system/blood and put	materials based on	Recognise that living things	observable characteristics
	created,	What is voltage and current	together and label a	properties (including	produce offspring	and based on similarities and
	Find out how light is	and how do batteries work. Investigate brightness of a	pop-up heart.	solubility, hardness,	Identify how animals /plants	differences, including micro-
	reflected using mirrors	lamp and how it's affected	Design an experiment	conductivity, magnetic	are adapted to their	organisms, plants and
	and periscopes and	by voltage of cells	to test how heart rate	properties)	environment	animals
	prove this with an	Find out how a bulb works	changes with exercise	5		Learn about Linnaeus's
	experiment.	Tilla out flow a baib works	and represent the	Dissolving/solutions –	Investigating variation in the	classification system.
	Show how light travels	Use recognised symbols	results using a	predict and test soluble	classroom – height, hair	6 1 16
	from light sources to	when representing a simple	spreadsheet and	materials – which	colour, shoe size etc. Data	Give reasons for classifying
	our eyes.	circuit in a diagram and	graphs.	dissolves quickest	collection and graph drawing to	plants and animals based on
	Find out how light can	create circuit diagrams to	Learn about the impact	Filtering/sieving –	analyse.	specific characteristics –
	be bent and split – find	represent circuits made.	of diet/ drugs on health.	investigate which		justify reasons for classifying
	out how a rainbow is	represent circuits made.		material make the best		

Science

made and desig experiment to s light is made up different colour	show p of			filter and record results graphically Everyday materials - Demonstrate reversible changes and non- reversible or irreversible	Predicting how humans might adapt over years to come based on new technologies and changes to the environment in which we live.	unusual animals such as the duck-billed platypus.
NC Unit Earth a Space KQ: How are or watches and carelated to the movements of space? Big Idea: The movement of coplanet is key to experience of to solar system. Learn about the mechanisms who result in earth he day and night a year every 4 ye Investigate how moon interacts earth. Investigate why have seasons a would happen if earth wasn't or	ur alendars earth in our our time. ur own e hich having and leap ears. w the s with the y we nd what if the	NC Unit Forces KQ: How can we measure the forces we experience on earth? Big Idea: Forces influence our everyday life Explain that unsupported objects fall towards the Earth – gravity. Learn about Newton's laws of gravity Air resistance – design and testing of parachutes Investigate friction – design and testing of ramp vehicle Recognise mechanisms, e.g. levers, pulleys and gears, allow a smaller force to have a greater effect.	The Science of a Trip to M KQ: How can scientists so to Mars? Big Idea: A successful trip understanding of how for How do the ideas we have space help us understand Mars?	to Mars requires an ces work.	NC Unit Living Things and Their habitats (y5) KQ: How do environmental conditions affect growth? Big Idea: There are differences and similarities in the lifecycles of mammals, amphibians, insects and birds Learn about the life cycles of a mammal, an amphibian, an insect and a bird and identify the differences and similarities. Investigate how a bean grows and the factors which influence its growth.	NC Unit Animals including humans-changes KQ: How does time affect the development of different animals from infancy to old age? Big Idea: Living things use different mechanisms to reproduce Describe the changes as humans develop to old age and give reasons why these changes occur. Compare the reproduction in plants with reproduction in animals (including SRE)

DISCIPLINARY KNOWLEDGE

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	-Ask simple questions and recognise that they can be answered in different ways	-Ask relevant questions and use different types of scientific enquiries to answer them	-Use their science experiences to explore ideas and raise different kinds of questions
	-Use simple secondary sources to find answers	-Start to make their own decisions about the most appropriate type of scientific enquiry they might use to answer questions	-Recognise which secondary sources will be most useful to research their ideas and begin to separate opinion from fact
Acking Onections		-Recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations	

	Year 1/2	Year 3/4	Year 5/6
	. ca. 2, 2	. ca. c , .	. ca. 5 / 5

	-Perform simple tests	-Set up simple practical enquiries, comparative and fair tests	-Plan different types of scientific enquiries to answer questions, including recognising and controlling variables
ing Tests	-Suggest some ideas and questions based on simple knowledge and say how they might find out about them	-Suggest questions that can be tested and make predictions about what will happen, some of which are based on scientific knowledge -Design a fair test or plan how to collect sufficient	-Use test results to make predictions and identify when further observations, comparative and fair tests might be needed (and explain which variables need to be controlled and why in a fair test)
lann		evidence	,
Ь		-Recognise when a simple fair test is necessary and help to decide how to set it up	-Decide how to turn ideas into a form that can be tested and, where appropriate, to make predictions of what will happen based on scientific
			knowledge and understanding

	Year 1/2	Year 3/4	Year 5/6
Gathering &	-Identify and classify -Use simple features to compare objects, materials and living things and with help decide how to sort and group them (identifying and classifying) -Record simple data - With help, record and communicate their findings in a range of ways and begin to use simple scientific language	-Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables -Gather, record, classify and present data in a variety of ways to help in answering questions	-Decide how to record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

Year 1/2 Year 3/4 Year 5/6		Year 1/2	Year 3/4	Year 5/6
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	-Observe closely,	using simple equipment (e.g. hand	-Make systematic and careful observations and,	-Choose the most appropriate equipment to take
٥	lenses, egg timer	s to gather data)	where appropriate, take accurate measurements	measurements, using a range of scientific equipment, with
	<u> </u>		using standard units, using a range of equipment,	increasing accuracy and precision, taking repeat readings
.5	-use their observ	ations and ideas to suggest answers to	including thermometers and data loggers	when appropriate
Š	questions			
2	SO		-Begin to look for naturally occurring patterns and	-Make their own decisions about what observations to
C	9		relationships and decide what data to collect to	make what measurements to use and how long to make
			identify them	them for

	Year 1/2	Year 3/4	Year 5/6
	-Gather and record data to help in answering questions	-Report on findings from enquiries, including oral	-Report and present findings from enquiries, including
		and written explanations, displays or presentations	conclusions, causal relationships and explanations of and
	- Talk about what they have found out and how they found	of results and conclusions	degree of trust in results, in oral and written
	it out		forms such as displays and other presentations
I≢		-Talk about criteria for grouping, sorting and	
Presenting,	-Begin to use simple scientific language	classifying; and use simple keys	-Use, read, write and convert between standard units,
ĕ			converting measurements of
Р.	-Record simple data		length, mass, volume and
) <u>8</u>			time from a smaller unit of measure to a larger unit, and
븅			vice versa, using
ō			decimal notation to up to
Recording,			three decimal places
~			(Maths)

	-Using their observations and ideas to suggest answers to	-Use results to draw simple conclusions, make	-Identify scientific
	questions	predictions for new values, suggest improvements	evidence that has been
		and raise further questions	used to support or refute
જ			ideas or arguments.
ng {		-Identify differences, similarities or changes related	
sin		to simple scientific ideas and processes	-Solve problems involving the calculation and
Ž			conversion of units of measure, using
na		-Use straightforward scientific evidence to answer	decimal notation up to three decimal places where
⋖		questions or to support their findings	appropriate (Maths)

SUBJECT SPECIFIC VOCABULARY - SCIENCE

PLANTS/LIVING THINGS

Year 1/2

wild plants, garden plants, deciduous, evergreen, germination, sprout seedling, seed dispersal, fruit, temperature, nutrition

Year 3/4

flowering plants, roots, stem, trunk, leaves, flowers, growth/grow, nutrients, soil, transported, pollination, pollen, seed formation, seed dispersal, life cycle, energy, minerals, pores, stigma, pollen, seeds

Year 5/6

life cycle, pollination, fertilisation, germination, photosynthesis, chlorophyll, stamen, anther, filament, stigma, style, carpel, ovary, ovule

SOUND

Year 3/4

eardrum, vibration, pitch, volume, soundproof, soundwave



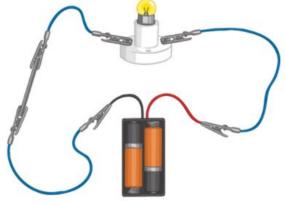
ELECTRICITY

Year 3/4

electricity, series, electrical circuit, cells, wires, bulbs, switch, buzzer, conductor, insulator

Year 5/6

renewable, non-renewable, electrons

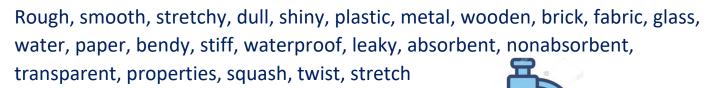


EVERYDAY MATERIALS, STATES OF MATTER, PROPERTIES AND CHANGES OF MATERIALS

Year R

hard, soft, float, sink

Year 1/2



Year 3/4

solid, liquid, gas, changing state, molecule, vibrate,

Year 5/6

solubility, transparency, conductivity, insulation, dissolve, solution, mixture, insoluble, evaporation, condense, melt, reversible changes, irreversible changes, filter, sieving, separate

Light

Year 3/4

shadow, dark, reflection, opaque,

Year 5/6

retina, pupil, translucent, transparent, light source, visible spectrum, prism, ray

Light source

Earth and Space

Year 5/6

Earth, solar system, Sun, Moon, rotation, day & night, star, planet, sphere, orbit, axis, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto



evaporate

Shadow forms

ANIMALS INCLUDING HUMANS

Year R

senses, sight, hearing, touch, smell, taste, eyes, nose, tongue, ears, head, food, water

Year 1/2

Amphibians, mammals, reptiles, carnivores, herbivores, omnivores, shoulder, elbow, baby, toddler, teenager, live, life cycle, offspring, reproduce, dehydrate, diet, disease, live young, energy, exercise, germs, heart rate, hygiene, pulse

Year 3/4

nutrition, skeletons, muscles, support, protection, movement, digestive system, human teeth, food chains, producers, predators, carnivores, herbivores

Year 5/6

heart, blood vessels, circulatory system, lifestyle, aorta, vein, artery, carbon

dioxide, oxygen

Rocks

Year 3/4

fossil, grains, crystals, sedimentary rock, soil, permeable, impermeable, erosion

Evolution and Inheritance

Year 5/6

Charles Darwin, adaptation, evolution, offspring, inheritance, variations, habitat, environment, characteristics

LIVING THINGS AND THEIR HABITATS

Year 1/2

living, dead, never alive, habitat, coastal, urban, woodland, pond



Year 3/4

living things, classification keys, local environment, wider environment, habitat, seashore, woodland

Year 5/6

reproduction, life cycle, photosynthesis, pollination, germination, fertilization, insect, mammal, classification, microorganisms

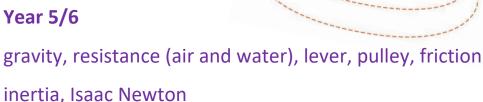
magnet

FORCES AND MAGNETS

Year 3/4

repel, attract, magnetic, pole

inertia, Isaac Newton



SEASONAL CHANGES

Year R

day, night, light, dark, weather, rain, sunshine, snow

Year 1/2

summer, winter, autumn, spring, season, months of the year

