

The Leys Primary School Subject Overview for Science - 2024-25 becoming a Scientist

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS Nursery	Understanding of the world Begin to understand the need to respect and care for the natural environment and all living things. Using all senses in hands on exploration of natural resources		Understanding of the world Plant seeds and care for growing plants. Talk about the differences between materials and changes they notice.		Understanding of the world Explore and talk about different forces they can feel. Understand the key features of the life cycle of a plant and an animal.	
EYFS Reception	Understanding of the world Explore the natural world around them. Describe what they see, hear and feel whilst outside. STEAM WEEK		Recognise some en		Explore the natural observations and diand plants Know some similarity between the natural them and contrastity their experiences of has been read in clause of the changes in the natural changes in the natural changes in the natural changes in the natural constraints.	ng environments, drawing on and what

			Healthy Living Week
Key Skills	Cookery Look at changes in the environment and what we notice Talk about things I can see in our school grounds Begin to manage personal hygiene Manage own personal hygiene Answer a simple question	Look at changes in the environment and what we notice Cookery Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps Answer questions about something you have done, seen or heard.	Explore the natural world around them making observations and drawing pictures of animals and plants. Cookery Make comments about what they have heard and ask questions to clarify their understanding.
Key subject links	Year 1, 2 and 3 plant topics Year 1, 2, 3, 4, 5 and 6 Animals including Humans topic. Year 2, 4, 5 and 6 Living Things and their Habitats. Year 4 and 6 Electricity topic. Year 5 Properties and Changes of materials (Conductivity). Year 1 Seasonal Changes topic. Year 2 Animals including Humans. (Humans, have offspring which grow into adults). Year 6 Living Things and their Habitats.	Year 1- Seasonal Change	Year 1 -Everyday materials Year 2 - Uses of everyday materials. Year 3 - Rocks Year 4- States of Matter Year 5 - Properties and changes of materials. Year 2, 4, 5 and 6 Living Things and their Habitats.
Key Vocabulary	 Natural, wild, wildlife, native. Places Habitats - Woodland, desert, ocean, jungle, Arcti Microhabitats: - Log, stone, tree, dead leaves, soi Seaside. 		

Objects British Autumn fruits and vegetables (e.g. apples, pears, beetroot, carrots, potatoes, butternut squash, sweetcorn, cauliflower). Bread: - Mix, knead, prove, rise. Materials · Object, material, properties, suitable, pipette, recycling. · Properties - Waterproof, strong/weak, dense/less dense, hard/soft. · Materials - Bubble wrap, foil, plastic, fabric, paper, straw, sticks, bricks, metal, glass. Living things - plants · Grow · Lifecycle: - Roots, shoots, stem, leaves, buds, flower · Water, light, warmth, temperature, soil, compost Living things - animals Body parts. • Backbone, skeleton, soft body, shell. Adapted, hibernate, migrate. · Predator, prey. Nocturnal · Adult/parent, baby. · Lifecycle: - Egg, caterpillar, chrysalis, butterfly. Birds (owl, duck), insects/bugs/minibeasts (lacewing, ladybird, woodlouse, bee, wasp, spider, tarantula, earthworm, snail, locust, cricket, millipede, butterfly, caterpillar), fish, reptiles (snake, tortoise, gecko), amphibians, mammals (mouse, shrew, vole, hare, fox). **Key Texts** Accessed through continuous provision Accessed through continuous provision Accessed through continuous provision SMSC and British Science supports social development by exposing Science supports spiritual development by Science supports moral development by showing Values children to the power of collaborative working in the children that different opinions need to be providing many opportunities for children to science community which has led to some amazing and think and spend time reflecting on the respected and valued. There are many moral and ethical issues that we cover in science including life changing breakthroughs in medicine. When amazing wonders which occur in our natural undertaking experiments and research children work world. discussions about environmental and human issues. collaboratively. Global Goals and School values The Leys Explore familiar and unfamiliar roles and Explore familiar and unfamiliar roles and Explore familiar and unfamiliar roles and

Pathways	experiences. Communicate in a two way conversation. Understand my feelings and respond to the feelings of others. Solve problems independently with resilience. Care for myself, others and the world around me.	experiences. Communicate in a two way conversation. Understand my feelings and respond to the feelings of others. Solve problems independently with resilience. Care for myself, others and the world around me.	experiences. Communicate in a two way conversation. Understand my feelings and respond to the feelings of others. Solve problems independently with resilience. Care for myself, others and the world around me.			
Year 1	Seasonal changes Objectives: Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day lengths vary. Cross Curricular Links: Geography, physical and human features Key vocabulary: Autumn, Winter, Spring, Summer, Weather, Sunrise, Sunset Key texts: The Weather Girls; Tree - Seasons come, seasons go					
	Everyday materials Distinguish between an object and the material from which it is made. Identify and 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. Compare and group together a variety of everyday materials on the basis of their simple physical properties. STEAM WEEK	Animals, including humans Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and 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 what parts of the body are associated with each sense.	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants, including trees. STEAM WEEK			

Key Skills	 Working Scientifically Ask simple questions and recognise that they can be answered in different ways (Year 1 focus) Use simple equipment to observe closely (Year 1 focus) Perform simple tests (Year 1 focus) Identify and classify (Year 1 focus) Use his/her observations and ideas to suggest answers to questions (Year 1 focus) Gather and record data to help in answering questions (Year 1 focus) 					
Key People	John Dunlop	Eugenie Clark	Wangari Maathai			
Key subject links	DT Wacky Windmills	Topic link - beside the seaside, what plants do we find in the sea? Explanation reports (English) how a plant grows				
Key Vocabulary	hard, stretchy, waterproof, see-through, absorbent	wing, feathers, paws, claw, hooves	leaf, flower, petal, roof, seed, trunk, stem, branch			
SMSC and British Values	Science supports social development by exposing children to the power of collaborative working in the science community which has led to some amazing and life changing breakthroughs in medicine. When undertaking experiments and research children work collaboratively.	Science supports moral development by showing children that different opinions need to be respected and valued. There are many moral and ethical issues that we cover in science including discussions about environmental and human issues.	Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing wonders which occur in our natural world.			
Global Goals and School values	9 MINISTER IND OBJUST OF THE PROPERTY OF THE	14 UPTREATE TO SELECT TO S	13 CLIMATE ACTION			
The Leys Pathways	Explore new experiences with confidence.	Explore new experiences with confidence.	Explore new experiences with confidence.			

	Communicate my thoughts and feelings in a calm, verbal way Solve problems independently with resilience in friendships and academics. Care for myself, others and the wider environment.	Communicate my thoughts and feelings in a calm, verbal way Understand how my actions impact others Solve problems independently with resilience in friendships and academics. Care for myself, others and the wider environment.	Communicate my thoughts and feelings in a calm, verbal way Solve problems independently with resilient friendships and academics. Care for myself, others and the wider environment.	
Year 2	Living things and their habitats 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. To describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name the different sources of food. STEAM WEEK	Using 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. STEAM WEEK	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 Know that animals including humans have offspring which grow into adults and that they can be born in different ways and look different to their adult. Know what the basic needs are of animals including humans and know what they need to survive. Identify why it is important to be healthy

				and hygienic. STEAM WEEK Healthy Living Week		
Key Skills	 Working Scientifically Ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum (Year 2 focus) Use simple equipment to observe closely including changes over time (Year 2 focus) Perform simple comparative tests (Year 2 focus) Identify, group and classify (Year 2 focus) Use his/her observations and ideas to suggest answers to questions noticing similarities, differences and patterns (Year 2 focus) Gather and record data to help in answering questions including from secondary sources of information (Year 2 focus) 					
Key People	Scientist: Jane Goodall Scientist: Dr Eugenie Clark	Scientist: Charles Macintosh Scientist: John McAdam	<mark>Scientist</mark> : Jane Colden	Scientist: David Attenborough		
Key subject links	TOPIC Poles apart, PSHE needs of living things, English - Meerkat mail	History - Fire of London	Geography - our environment	PSHE Health and Wellbeing		
Key Vocabulary	living, dead, never been alive, habitat, micro-habitat	transparent, translucent, opaque, flexible, rigid, absorbent	seed, bulb, germinate, seedling	offspring, reproduction, hygiene		
SMSC and British Values	Science supports social development by exposing children to the power of collaborative working in the science community which has led to some amazing and life changing breakthroughs in medicine. When undertaking experiments and research children work collaboratively.	Science supports moral development by showing children that different opinions need to be respected and valued. There are many moral and ethical issues that we cover in science including discussions about environmental and human issues.	Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how		

			wonders which occur in our natural world.	important science is to the economy and culture of the UK.
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The Leys Pathways	Explore new experiences with confidence. Communicate my thoughts and feelings in a calm, verbal way Understand how my actions impact others Solve problems independently with resilience in friendships and academics. Care for myself, others and the wider environment. Care for myself, others and the wider environment.	Explore new experiences with confidence. Communicate my thoughts and feelings in a calm, verbal way Solve problems independently with resilience in friendships and academics. Care for myself, others and the wider environment.	Explore new experiences with confidence. Communicate my thoughts and feelings in a calm, verbal way Understand how my actions impact others Solve problems independently with resilience in friendships and academics. Care for myself, others and the wider environment.	Explore new experiences with confidence. Communicate my thoughts and feelings in a calm, verbal way Understand how my actions impact others Solve problems independently with resilience in friendships and academics.

Year 3	Light -recognise that they need light in order to see things and that dark is the absence of light -notice that light is reflected from surfaces -recognise that light from the sun can be dangerous and that there are ways to protect their eyes -recognise that shadows are formed when the light from a light source is blocked by a solid object -find patterns in the way	Animals, including humans identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat -identify that humans and some other animals have	Forces and magnets -compare how things move on different surfaces -notice that some forces need contact between two objects, but magnetic forces can act at a distance -observe how magnets attract or repel each other and attract some materials and not others -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 -describe magnets as having two poles -predict whether two magnets will attract or repel each other, depending	Plants -identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers -explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from	Care for myself, others and the wider environment. Rocks -compare and group together different kinds of rocks on the basis of their appearance and simple physical properties -recognise that soils are made from rocks and organic matter -describe in simple terms how fossils are formed when things that have lived are trapped within rock STEAM WEEK
	from a light source is blocked by a solid object -find patterns in the way that the size of shadows change. They ear -identify that humans and some other animals have skeletons and muscles for support, protection and	-describe magnets as having two poles -predict whether two magnets will attract or repel each other, depending on which poles are facing. STEAM WEEK i	from soil, and room to grow) and how	formed when things that have lived are trapped within rock	

				-explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.		
Key Skills	Working Scientifically Ask relevant questions and use different types of scientific enquiries to answer them (Year 3 focus) Set up simple practical enquiries, comparative and fair tests (Year 3 focus) Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers (Year 3 focus) Gather, record, classify and present data in a variety of ways to help in answering questions (Year 3 focus) Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables (Year 3 focus) Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (Year 3 focus) Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions (Year 3 focus) Identify differences, similarities or changes related to simple scientific ideas and processes (Year 3 focus) Use straightforward scientific evidence to answer questions or to support his/her findings (Year 3 focus)					
Key People	Thomas Edison	Roger Arliner Young	Sir Isaac Newton	Agnes Arber/George Washington Carver	Mary Anning	
Key subject links	Art - shadows and creating shadow using pencil marks	History - sources	Maths - Venn Diagrams	English - explanation texts, instruction writing	PSHE - health and wellbeing, Stones and Bones topic	

Key Vocabulary	transparent, translucent, opaque, shadow, reflect	nutrients, carbohydrates, protein, fibre, skeleton, bones, muscle	attract, repel, poles	photosynthesis, pollen, seed formation, seed dispersal, germination	rock, fossil, soil
SMSC and British Values	Science supports moral development by showing children that different opinions need to be respected and valued. There are many moral and ethical issues that we cover in science including discussions about environmental and human issues.	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the UK.	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the UK.	Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing wonders which occur in our natural world	Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing wonders which occur in our natural world
Global Goals and School values	3 6000 	15 IFE MILES	9 IMPOULITION AND INFRACTIONINE	7 REFEMANCE DESIGN	13 ELIMITE
The Leys Pathways	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity.	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity.	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity. Solve problems regarding school life independently with resilience and seek support openly. Care for myself, others and the wider world.	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity.	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in

	Solve problems regarding school life independently with resilience and seek support openly. Care for myself, others and the wider world.	Understand how my actions affect myself and others around me. Solve problems regarding school life independently with resilience and seek support openly. Care for myself, others and the wider world.			Solve problems regarding school life independently with resilience and seek support openly.	writing with increased clarity. Solve problems regarding school life independently with resilience and seek support openly. Care for myself, others and the wider world.
Year 4	compare and group materials to whether they are solids, I observe that some materials they are heated or cooled, a research the temperature a in degrees Celsius (°C) identify the part played by a condensation in the water cyrate of evaporation with tem	s together, according iquids or gases change state when nd measure or twhich this happens evaporation and occle and associate the	Animals including humans Describe the simple functions of the basic parts of the digestive system in humans	Living things and their habitats Recognise that living things can be grouped in a variety of ways explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. recognise that	Identify how sounds are made, associating some of them with something vibrating recognise that vibrations from sounds travel through a medium to the ear find patterns between the pitch of a sound and features of the	Electricity Identify common appliances that run on electricity construct a simple series 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

			environments can change and that this can sometimes pose dangers to living things. construct and interpret a variety of food chains, identifying producers, predators and prey. STEAM WEEK	object that produced it find patterns between the volume of a sound and the strength of the vibrations that produced it recognise that sounds get fainter as the distance from the sound source increases.	complete 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. predict whether two magnets will attract or repel each other, depending on which poles are facing. STEAM WEEK Healthy Living Week
Key Skills	 Working Scientifically Ask relevant questions and use different ty Set up simple practical enquiries, comparati Make systematic and careful observations a equipment, including thermometers and data Gather, record, classify and present data in Record findings using simple scientific language 	ve and fair tests (Yend, where appropriate loggers (Year 4 foca variety of ways to	ear 4 focus) e, take accurate measu us) help in answering quest	rements using standare	

	 Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (Year 4 focus) Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions (Year 4 focus) Identify differences, similarities or changes related to simple scientific ideas and processes (Year 4 focus) Use straightforward scientific evidence to answer questions or to support his/her findings (Year 4 focus) 					
Key People					Nikola Tesla	
Key subject links	Maths - reading scales	PSHE Health and Wellbeing. English - explanation text	Venn diagrams. DT - Shell structures	Music - sound and melody	English - Streets through time	
Key Vocabulary	melting, freezing, boiling point, condensation	digestion, herbivore, carnivore, omnivore	classification, migrate, environment, habitat, hibernate	vibration, pitch, volume	cell, battery, switch, conductor, insulator	
SMSC and British Values	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the UK.	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the UK.	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the UK.	Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing wonders which occur in our natural world.	

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The Leys Pathways	Explore the world around me, increase understanding. Communicate verbally confidently an clarity. Solve problems regarding school life resilience and seek support openly.	d in writing with increased	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity. Understand how my actions affect myself and others around me. Solve problems regarding school life independently with resilience and seek support openly. Care for myself, others and the wider world.	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity. Understand how my actions affect myself and others around me. Solve problems regarding school life independently with resilience and seek support openly. Care for myself, others and the wider world.	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity. Solve problems regarding school life independently with resilience and seek support openly. Care for myself, others and the wider world.	Explore the world around me, increasing my knowledge and understanding. Communicate verbally confidently and in writing with increased clarity. Care for myself, others and the wider world.
Year 5	<u>Forces</u>	Earth and space	Properties and c	hanges of materials	Animals, including	Living things and their

	-explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object - identify the effects of air resistance, water resistance and friction, that act between moving surfaces - recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect	-describe the movement of the Earth, and other planets, relative to the Sun in the solar system -describe the movement of the Moon relative to the Earth -describe the Sun, Earth and Moon as approximately spherical bodies - use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky. STEAM WEEK	-compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets - know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution - use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating - give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic - demonstrate that dissolving, mixing and changes of state are reversible changes - 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. STEAM WEEK	humans - describe the changes as humans develop to old age.	-describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird - describe the life process of reproduction in some plants and animals. STEAM WEEK Healthy Living Week
Key Skills	Working Scientifically				

•	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary (Year 5
	focus)
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- Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate (Year 5 focus)
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs (Year 5 focus)
- Use test results to make predictions to set up further comparative and fair tests (Year 5 focus)
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations (Year 5 focus)
- Identify scientific evidence that has been used to support or refute ideas or arguments (Year 5 focus)

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Key People	Isaac Newton	Sally Ride	Ruth Benerito	Dr David Sinclair	Jane Goodall
Key subject links	DT - pulleys and levers	Religious Education - creation of earth	Geography - natural resources	PSHE, health and wellbeing	English - debating global warming
Key Vocabulary	force, gravity, Newton, friction, resistance	Earth, Sun, Moon, rotate, orbit	conductor, insulator, dissolve, reversible, irreversible	puberty, reproduction, menstruation, foetus	life cycle, metamorphosis, reproduction
SMSC and British Values	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the UK.	Science supports moral development by showing children that different opinions need to be respected and valued. There are many moral and ethical issues that we cover in science	Science supports social development by exposing children to the power of collaborative working in the science community which has led to some amazing and life changing breakthroughs in medicine. When undertaking experiments and research children work collaboratively.	Science supports social development by exposing children to the power of collaborative working in the science community which has led to some amazing and life changing	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture

		including discussions about environmental and human issues.		breakthroughs in medicine. When undertaking experiments and research children work collaboratively	of the UK.
Global Goals and School values		8 COORD JOSE AND 9 INSPACEMENT AND NO STATEMENT AND NO ST	9 INDIVIDUA AND INFRASTRICTURE	15 ON LAND	14 WEEK TO STAND
The Leys Pathways	Explore and challenge my learning in order to promote independence and resilience. Communicate clearly and confidently both verbally and in writing. Solve a wide range of problems across the curriculum, both independently and collectively as a team.	Explore and challenge my learning in order to promote independence and resilience. Communicate clearly and confidently both verbally and in writing. Understand my strengths and areas for development within our school community. Solve a wide range of problems across the curriculum, both independently and collectively as a team. Care and understand how to promote the physical and mental well-being of myself and others and the world we live in.	Explore and challenge my learning in order to promote independence and resilience. Communicate clearly and confidently both verbally and in writing. Understand my strengths and areas for development within our school community. Solve a wide range of problems across the curriculum, both independently and collectively as a team.	Explore and challenge my learning in order to promote independence and resilience. Communicate clearly and confidently both verbally and in writing. Understand my strengths and areas for development within our school community. Solve a wide range of problems across the curriculum, both independently and collectively as a team. Care and understand how to promote the physical and mental well-being of myself and others and the world we live in.	Explore and challenge my learning in order to promote independence and resilience. Communicate clearly and confidently both verbally and in writing. Understand my strengths and areas for development within our school community. Solve a wide range of problems across the curriculum, both

					independently and collectively as a team. Care and understand how to promote the physical and mental well-being of myself and others and the world we live in.
Year 6	Living things and their habitats To explore different habitats and the characteristics of each habitat - ask how climate change is affecting these habitats To develop knowledge on why certain animals live in specific habitats To develop knowledge and compare adaptations of plants and animals according to the climate that they live in - ask how animals are affected by climate change and humans	Evolution and inheritance To develop knowledge of Evolution - who discovered it and how was it discovered To describe inheritance and how it explains the process of evolution To question why offspring are not identical to parents To explore ideas of inherited characteristics	Animals including Humans To develop knowledge on how we grow and change both emotionally and physically To compare the types of relationships that people have as they develop. To consolidate knowledge of the importance of nutrition and exercise. To develop knowledge of the circulatory system - how does the heart function? What is the difference between oxygenated and deoxygenated blood? To investigate how water and nutrients are transported in the circulatory system and recognise the impact of diet, exercise, drugs and lifestyle on how their bodies function. To investigate and hypothesise how	To consolidate knowle they work - recognising To investigate how voor brightness of a lamp in the compare and give a how components function to hypothesise, report conclude findings from	Itage in cells affects in a circuit reasons for variations in tion - brightness, rt and present and m enquiries in ling data in a variety of

	impact in their environments To experiment and compare how microorganisms grow in favourable environments (dark, hot, wet) and don't grow in unfavourable environments (dry, cool) - Experiment with bread mould	To develop knowledge on natural selection - why is it needed? What happens if it didn't occur in nature? To discuss the different ways in which extinction can occur	exercise can affect the circulatory system. STEAM WEEK			
Key Skills	where necessary (Ye Take measurements, appropriate (Year 6 Record data and res and line graphs (Year Use test results to n Report and present f results, in oral and w Report and present f results, in oral and w Describe and evaluat changed over time), or	ar 6 focus) using a range of scient focus) ults of increasing comp of focus) nake predictions to set findings from enquiries, ritten forms such as dis findings from enquiries, ritten forms such as dis te their own and other p	ntific enquiries to answer their own or others' questions, including recognising and controlling variables cus) range of scientific equipment, with increasing accuracy and precision, taking repeat readings when increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar			
Key People	Scientist: Attenborough	Darwin	William Harvey Noel Fitzpatrick	Tesla		

Key subject links	Geography - climate change and impact on environment. DT - bread mould and how food is made. English - debating climate change.	Religious Education - debate of theories of evolution. Geography - extinction of animals and global warming	PSHE diet, relationships, health and wellbeing	Computing - presenting graphs on a spreadsheet
Key Vocabulary	vertebrate, amphibian, invertebrate	offspring, inherited, characteristics, adapted	pulse, blood, lungs, circulatory system. diet, exercise	straight lines, light ray, reflect, shadow
SMSC and British Values	Science supports cultural development by looking at how scientists from a range of cultures have had a significant impact globally. It also helps children to understand how important science is to the economy and culture of the UK.	Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing wonders which occur in our natural world.	Science supports social development by exposing children to the power of collaborative working in the science community which has led to some amazing and life changing breakthroughs in medicine. When undertaking experiments and research children work collaboratively.	Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing wonders which occur in our natural world.
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The Leys Pathways

Explore and challenge my learning in order to promote independence and resilience.

Communicate clearly and confidently both verbally and in writing.

Understand my strengths and areas for development within our school community.

Solve a wide range of problems across the curriculum, both independently and collectively as a team.

Care and understand how to promote the physical and mental well-being of myself and others and the world we live in.

Explore and challenge my learning in order to promote independence and resilience.

Communicate clearly and confidently both verbally and in writing.

Understand my strengths and areas for development within our school community.

Solve a wide range of problems across the curriculum, both independently and collectively as a team.

Care and understand how to promote the physical and mental well-being of myself and others and the world we live in. Explore and challenge my learning in order to promote independence and resilience.

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