

Science

Intent – what do we want to achieve?

In the KT Federation, we recognise the importance of Science in every aspect of daily life. Our intent is to ensure that children are taught science through a balance of understanding scientific concepts, thinking/working scientifically and being able to apply skills. Because many Science concepts are abstract, we aim to sequence learning carefully starting in the early years when children are introduced to a wide-ranging vocabulary that sorts and describes the natural world. This will provide the 'seeds' for developing scientific concepts that will be built on in later years. A good Science curriculum also provides the foundation for a range of valuable careers that are essential for economic, environmental and social development. Therefore, we want our children to love science. We want them to have no limits to what their ambitions are and grow up wanting to be astronauts, forensic scientists, inventors or microbiologists.

Implementation – how will we achieve this?

Learning begins in the EYFS through hands on experiences and through the planning and teaching of 'Understanding the World.' Children find out about objects, materials and living things using all of their senses looking at similarities, differences, patterns and change with staff encouraging curiosity and explorative play. Children are motivated to ask questions about why things happen and how things work. Our children are encouraged to use their natural environment around them to explore and enjoy spending time outdoors exploring mini-beasts and their habitats, observing the changing seasons, plants and animals. Children regularly participate in cookery and baking sessions which allows them to experience changes in state as ingredients are mixed, heated and cooled.

Through KS1 and KS2 we ensure that all learning covers the requirements of the National Curriculum. Science is taught through our topics with knowledge, key vocabulary and skills being taught progressively with 'flashbacks' to prior learning highlighted. Each year will build upon the learning from prior year groups therefore developing depth of understanding and progression of skills. We want our children to:

- Ask questions and to understand the uses of and implications of science, today and for the future.
- Develop their interest and enjoyment of science by building on their natural curiosity.
- Develop their use of appropriate scientific vocabulary.
- Develop children's ability to ask questions, undertake fair tests, accurately record their findings and analyse their results.
- Develop their skills of prediction, hypothesis, experimentation, investigation, observation, measurement, interpretation and communication.

Whole school events, such as 'Science Week', are planned in to the academic calendar, as well as visits/visitors that will engage and make learning memorable

Making our Science curriculum tangible, our onsite Forest Schools will give a greater depth of understanding by giving children a respect for natural sciences. Children will experience first-hand changes to the natural environment during the seasons. For example: developing observational and investigative skills such as watching minibeasts within their environments, growing and studying plants in our KS1 'Growing' topic and looking at seasonal changes in our YR 'Jolly Farmers' topic.



Impact – what will be the impact on learning?	past is highlighted in ou on Inside?' when childre global challenges such a pollution in our UKS2 to Science is assessed durin Evidence for this can be fieldwork. Teachers also	r topics - for example, be en look at the life and was climate change, food pic 'Is there a Solution t ng lessons and children seen in STEM books, the assess individual progr	pout its uses and importance by eradicating smallpox and works of Edward Jenner. Our availability, controlling dise to Pollution?' are encouraged to self and prough written and pictorial ress at the end of each topic portunities to improve prace	discovering penicillin, verildren also understar asse and access to water peer assess against the work and photographic using a science knowle	which forms part of our LKS and the continuing important. An example of this is the lesson's learning objective evidence of science pract	52 topic 'What's Going nce of science in solving focus on plastic es and success criteria.
	Andrew - 4	A	Cycle 1 - EYFS	Constitute 2	Cours or a 4	Company of 2
T *.	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic						
	A		Cycle 1 – Year 1 & 2		Course	
Throada	Autu		Spri	<u> </u>	Sum	
Threads	Biolo	ogy	Physics/Ch	iemistry	<u> </u> Pny	rsics



Topic	Let's Go Wild!	Once Upon A Time	Where in the World
Knowledge	Animals, including humans (Y1)	Everyday materials (Y1)	Seasonal changes (Y1)
	Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
Knowledge			 Pupils should be taught to: observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies. Uses of everyday materials (Y2) Pupils should be taught to:
	Pupils should be taught to: • identify and name a variety of plants		
	and animals in their habitats, including micro-habitats		
	 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. 		



Vocabulary	Amphibians, birds, fish, mammals, reptiles, carnivore, herbivore, omnivore, sight, hearing, touch, taste, smell, body Life processes, food chain, food sources, habitat, micro-habitat, depend, survive	Object, material, hard, soft, stretchy, shiny, dull, rough, smooth, bendy, not bendy, waterproof, not waterproof, absorbent, not absorbent, transparent, opaque	Seasons, autumn, winter, summer, spring, weather, daylight, days, months, year, temperature Materials, suitability, properties, wood, metal, plastic, glass, brick, rock, paper, cardboard, squash, bend, twist, stretch
Opportunities for Experiments	Real life plant comparisonsAutum sense walk.	Car friction experiment.	 Rain water collection. Long experiment: photograph in each season under same tree comparison. What's the best material for an item.
Skills	teaching of the programme of study conter	that they can be answered in different ways ent ggest answers to questions	ods, processes and skills through the
FLASHBACK -Links to previous learning			
Enrichment - Sparkling Starts/Marvellous Middles/Fantastic			



Finishes/Visits & Visitors Assessment Opportunities	Autumn	Cycle 1 – Year 3 & 4 Spring	Summer
Threads Topic	Physics Rocks, Shocks, Shakes and Wild Weather	Chemistry / Physics From Snozzcumbers to Perfect Potions	Physics Dress to Impress
Knowledge	 Rocks (Y3) Pupils should be taught to: compare and group together different kinds of rocks on the basis of their appearance and simple physical properties describe in simple terms how fossils are formed when things that have lived are 	 States of matter (Y4) Pupils should be taught to: compare and group materials together, according to whether they are solids, liquids or gases observe that some materials change state when they are heated or cooled, and measure or research the 	 Forces and magnets (Y3) compare how things move on different surfaces notice that some forces need contact between 2 objects, but magnetic forces can act at a distance observe how magnets attract or repel each other and attract some materials
	 trapped within rock recognise that soils are made from rocks and organic matter Light (Y3) Pupils should be taught to: recognise that they need light in order to see things and that dark is the absence of light 	temperature at which this happens in degrees Celsius (°C) • identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature Sound (Y4) Pupils should be taught to:	 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 2 poles predict whether 2 magnets will attract or repel each other, depending on
	 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 	 identify how sounds are made, associating some of them with something vibrating recognise that vibrations from sounds travel through a medium to the ear 	which poles are facing Electricity (Y4) Pupils should be taught to: identify common appliances that run on electricity



	 recognise that shadows are formed when the light from a light source is blocked by an opaque object find patterns in the way that the size of shadows change 	sound and the strength of the vibrations that produced it recognise that sounds get fainter as the distance from the sound source increases	 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 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
Vocabulary	Igneous, sedimentary, metamorphic, magma, lava, sediment, permeable, impermeable, fossilisation, palaeontology, erosion Light, light source, dark, reflect, reflection, ray, pupil, retina, shadow, opaque, translucent, transparent	Vibration, sound wave, volume, amplitude, pitch, ear, particles, distance, soundproof, absorb sound, vacuum, eardrum States of matter, solids, liquids, gases, water vapour, melt, freeze, evaporate, condense, precipitation	Magnet, magnetic, magnetic field, poles, repel, attract, forces, friction, surface Electricity, generate, renewable, non-renewable, appliance, battery, circuit
Opportunities for Experiments	 Rocks, Fossils and Soils: Properties of rocks investigation Light: Changing and making shadows Reflective light investigation 	 States of Matter: Melting and freezing of chocolate – reversible reactions Proof of evaporation and condensation – reversible reactions Water Cycle: Mini Water Worlds 	 Forces and Magnets: Investigating the strength of magnets Surfaces and friction investigation Magnetic materials investigation Electricity:



	Transparency of materials	Sound:	Insulators and conductors			
	investigation	Proof of sound vibrations	investigation			
	Investigation	 Distance and sound investigation 	investigation			
Claille	Manhing Colombifically	Distance and sound investigation				
Skills	 Working Scientifically During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: asking relevant questions and using different types of scientific enquiries to answer them setting up simple practical enquiries, comparative and fair tests making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers gathering, recording, classifying and presenting data in a variety of ways to help in answering questions 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 using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings. 					
FLASHBACK -Links to previous	Y1 – Seasonal changes Y2 – Uses of Everyday Materials	Y1 – Everyday Materials Y2- Uses of Everyday Materials	Y1 – Everyday Materials Y2- Uses of Everyday Materials			
learning						
Enrichment -		Sparkling Start: Potions Workshop - Potions				
C 1 1						
Sparkling		and creature making, creative/messy	Fantastic Finish: Recycled Materials			
Starts/Marvellous		and creature making, creative/messy exploration, biscuit design and decoration	Fantastic Finish: Recycled Materials Fashion Show			
Starts/Marvellous Middles/Fantastic		exploration, biscuit design and decoration	· · · · · · · · · · · · · · · · · · ·			
Starts/Marvellous		_	· · · · · · · · · · · · · · · · · · ·			



Assessment Opportunities Threads	Autumn Chemistry/Physics How has the conflicts of World War Two	'Revolting Recipes' Feast – dress up and cooking Cycle 1 – Year 5 & 6 Spring Biology	Summer Chemistry/Physics Can chocolate transform the world? -
Topic	shaped British History? - WW2	How should we unravel the past? - Ancient Egypt	Mayan
Knowledge	 Light (Y6) Pupils should be taught to: recognise that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye 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 use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them Properties and changes of materials (Y5) Pupils should be taught to: know that some materials will dissolve in liquid to form a solution, and 	 Animals including humans (Y6) Pupils should be taught to: Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Describe the ways in which nutrients and water are transported within animals, including humans. 	 Properties and changes of materials (Y5) Pupils should be taught to: Compare and group together everyday materials on the basis of their properties- linked to chocolate 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 Earth and Space (Y5) Pupils should be taught to: 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



Skills	Working Scientifically		
			Separating mixtures investigations
			Egg drop challenge
Experiments	Prisms investigation		distance between the planets.
Opportunities for	Bicarbonate of soda/lemon juice		Practical demonstration of the size and
	soluble, reversible, irreversible		
	particles, dissolving, sieving, filtering,		astronomer,
	freezing, evaporating, condensing,		geocentric model, heliocentric model,
	Materials, solids, liquids, gases, melting,		bodies, satellite, orbit, axis, rotate,
	shadow, transparent, translucent, opaque	White blood cells, placelets, mathems	Sun, star, moon, planet, sphere, spherical
	refraction, visible spectrum, prism,	white blood cells, platelets, nutrients	soluble, reversible, irreversible, fair test
	angle of reflection, angle of incidence,	arteries, capillaries, plasma, red blood cells,	particles, dissolving, sieving, filtering,
v Ocabulal y	reflected ray, law of reflection, waves,	oxygenated blood, deoxygenated blood,	freezing, evaporating, condensing,
Vocabulary	Light, light source, reflection, incident ray,	Circulatory system, heart, blood vessels,	Materials, solids, liquids, gases, melting,
	associated with burning and the action of acid on bicarbonate of soda		
	reversible, including changes		
	this kind of change is not usually		
	formation of new materials, and that		
	• explain that some changes result in the		
	changes		
	and changes of state are reversible		
	 demonstrate that dissolving, mixing 		
	sieving and evaporating		
	separated, including through filtering,		movement of the sun across the sky
	gases to decide how mixtures might be		explain day and night and the apparent
	 use knowledge of solids, liquids and 		Use the idea of the Earth's rotation to
	from a solution		approximately spherical bodies
	describe how to recover a substance		Describe the sun, Earth and moon as



	 During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments 					
FLASHBACK –Links	Y1 – Seasonal changes	;	Y1 – Animals, including Humans		Y1 – Everyday Materials	
to previous	Y3 – Light		Y2 – Animals, including Humans		Y2- Uses of Everyday Materials	
learning	Y1 – Everyday Materia		Y3 – Animals, including humans		Y3 – Forces and magnets	
	Y2- Uses of Everyday N Y4 – States of Matter	Materials	Y4 – Animals, including	humans	Y4 – Electricity, States	of Matter
Enrichment -			Science workshops deli	vered by A level	Marv. Middle – Create	e chocolate bars.
Sparkling			students from St Thoma	as More School		
Starts/Marvellous						
Middles/Fantastic						
Finishes/Visits &						
Visitors						
Assessment						
Opportunities						
			Cycle 2 - EYFS			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic						



		Cycle 2 - Year 1 & 2	
	Autumn	Spring	Summer
Topic	Castles	Growing	Under the Sea
Knowledge	Animals, including humans (Y2) Pupils should be taught to: • 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.	Plants (Y1) Pupils should be taught to: identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	Animals, including humans (Y2) Pupils should be taught to: • find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Living things and their habitats (Y2) Pupils should be taught to: • 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
Vocabulary	Adult, child, healthy, diet, disease, exercise, germs, hygiene, nutrition, pulse, survive, food, water, air, fruits, vegetables, carbohydrates, protein, dairy	have offspring which grow into adults Wild plant, garden plant, weed, deciduous, evergreen, roots, stem, leaves, flowers, petals, fruit, seed, bulb Grow, germination, shoot, seed dispersal,	micro-habitats Adult, child, healthy, diet, disease, exercise, germs, hygiene, nutrition, pulse, survive, food, water, air, fruits, vegetables, carbohydrates, protein, dairy
		life cycle, sunlight, water, temperature, nutrition,	



		Life cycle, develop, offspring, adult, young, live young, baby, toddler, child, teenager,	Life processes, food chain, food sources, habitat, micro-habitat, living, dead, never living
Opportunities for Experiments	Effects of exercise on the body.	 Sunflower growing, no water, no light observations. 	 Exploring school grounds identifying things that are living, dead and things that have never lived.
Skills	teaching of the programme of study conte	g that they can be answered in different ways ent ggest answers to questions	nods, processes and skills through the
FLASHBACK -Links to previous learning			
Enrichment - Sparkling Starts/Marvellous Middles/Fantastic Finishes/Visits & Visitors		Marvellous middle: Chilli farm Fabulous Finish Tour of the Village to find signs of Spring.	Stunning Start: Real Fish to draw and explore. Visit to River.
Assessment Opportunities			



	Cycle 2 - Year 3 & 4					
	Autumn	Spring	Summer			
Threads	Biology	Biology	Biology			
Topic	What's Going on Inside?	Around the World in 80 Days	Invasion!			
Knowledge	Animals, including humans (Y3)	Living things and their habitats (Y4)	Plants (Y3)			
	 Pupils should be taught to: 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 skeletons and muscles for support, protection and movement Animals, including humans (Y4) Pupils should be taught to: describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey 	 Pupils should be taught to: 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 environments can change and that this can sometimes pose dangers to living things 	 Pupils should be taught to: 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 plant to plant investigate the way in which water is transported within plants explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 			



Vocabulary	Healthy, nutrients, energy, saturated fats, unsaturated fats, vertebrate, invertebrate, muscle, tendon, joints, carbohydrate, protein, fibre, vitamins, minerals Digest, oesophagus, stomach, small intestine, large intestine, rectum, herbivore, carnivore, omnivore, producer, predator, prey, incisor, molar, premolar, canine	Organism, life processes, respiration, sensitivity, reproduction, excretion, nutrition, habitat, environment, endangered species, extinct, classification, vertebrates, invertebrates, specimen, characteristics	Roots, stem, leaves, flowers, nutrients, evaporation, fertilisation, petal, stamen, carpel/pistil, sepal, pollination, pollinator, germination, seed dispersal
Opportunities for Experiments	Animals, including humans: • Egg shell experiment – Tooth Decay • Skeleton jumping investigation – Does height/length of limbs effect distance that can be jumped.	Living things and their habitats ● Invertebrate hunt	 Plants: Investigating factors that effect plant growth and life
Skills	Working Scientifically During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: • asking relevant questions and using different types of scientific enquiries to answer them • setting up simple practical enquiries, comparative and fair tests • making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers • gathering, recording, classifying and presenting data in a variety of ways to help in answering questions • 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 • using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions		

Our vision is to work in partnership with families to unlock the potential of every individual.

Together, we nurture a self-belief and a lifelong passion for learning



	 identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings. 		
FLASHBACK –Links	Y1 – Animals, including Humans	Y2 – Living Things and their Habitats	Y1 – Plants
to previous	Y2 – Animals, including Humans		Y2 – Plants
learning			
Enrichment -	Sparkling Start: The journey of poo		
Sparkling	(making intestines)		
Starts/Marvellous	Marvellous Middle: Visit from a dentist		
Middles/Fantastic	Fantastic Finish: Good gut food		
Finishes/Visits &			
Visitors			
Assessment			
Opportunities			
		Cycle 2 – Year 5 & 6	
	Autumn	Spring	Summer
Thread	Biology/Physics	Biology	Physics
Topic	What makes us and our community	What is the solution to pollution?	What puts the game in gaming? - Ancient
	marvellous?		Greeks
Knowledge	Animals, including humans (Y5)	Living Things and their Habitats (Y5)	Forces (Y5)
	Pupils should be taught to:	Pupils should be taught to:	Pupils should be taught to:
	Describe the changes as humans	• Describe the differences in the life cycles	Explain that unsupported objects fall
	develop to old age	of a mammal, an amphibian, an insect	towards the Earth because of the force
	Animals, including humans (Y6)	and a bird	of gravity acting between the Earth and
	Pupils should be taught to:	Describe the life process of reproduction	the falling object.
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	• Recognise the impact of diet, exercise,	in some plants and animals	Identify the effects of air resistance,
	 Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function 	in some plants and animals Living Things and their Habitats (Y6) Pupils should be taught to:	 Identify the effects of air resistance, water resistance and friction that act between moving surfaces.



Masshalam	 Describe the ways in which nutrients and water are transported within animals, including humans Evolution and Inheritance (Y6) Pupils should be taught to: Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution 	 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 Give reasons for classifying plants and animals based on specific characteristics recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. 	 Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have greater effect. Electricity (Y6) Pupils should be taught to: associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the 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 use recognised symbols when representing a simple circuit in a diagram.
Vocabulary	Life cycle, fertilisation, prenatal, gestation, reproduce, asexual reproduction, sexual reproduction, infancy, childhood, adolescence, early/late adulthood, puberty, menstruation, life expectancy Diet, exercise, healthy lifestyle, drugs, alcohol, nutrients, plasma, red blood cells, white blood cells, platelets	Asexual reproduction, fertilise, gestation, life cycle, metamorphosis, pollination, reproduction, sexual reproduction Characteristics, classify, classification, taxonomist, key, microorganisms, microscope, species, bacteria	Forces, gravity, Earth's gravitational pull, weight, mass, friction, air resistance, water resistance, buoyancy, streamlined, mechanism, upthrust, pulley, lever, gear Circuit, symbol, cell/battery, current, amps, voltage, resistance, electrons, diagram, series circuit, parallel circuit



Opportunities for Experiments	Offspring, inheritance, variations, characteristics, adaptation, habitat, environment, evolution, natural selection, fossil, adaptive traits, inherited traits • Effect of exercise investigation		 Electrical circuits practical experiments Mechanisms- making automaton boxes using levers and gears Experiments related to gravity, air and water resistance
Skills	 Working Scientifically During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments 		
FLASHBACK –Links to previous learning	Y2 – Uses of Everyday Materials Y3 - Rocks Y1 – Animals, including Humans Y2 – Animals, including Humans Y3 – Animals, including humans Y4 – Animals, including humans	Y2 – Living Things and their Habitats Y4 – Living Things and their Habitats	Y1 – Everyday Materials Y2- Uses of Everyday Materials Y3 – Forces and magnets Y4 – Electricity



Enrichment -		
Sparkling		
Starts/Marvellous		
Middles/Fantastic		
Finishes/Visits &		
Visitors		
Assessment		
Opportunities		