Year group	Science unit	Prior knowledge / learning	Scientific knowledge / key questions	Vocabulary	Working scientifically	Enrichment and engagement activities
Reception: Term 1 and 2	The Natural World- Seasons (ongoing) Space	Explore the natural world around them. Explore and respond to different natural phenomena in their setting and trips.	Talk about changes, similarities Describe what they see, hear and feel whilst outside Talk about the four seasons Talk about living things they see / notice on visits during each season Nocturnal animals Children to answer questions about space and space travel. Children to use observations from books when painting model planets.	Spring Summer Autumn Winter Seasons Storm Hibernate Cold Hot Icy Frost Windy Sun, moon, Earth, star, planet, sky, day, night, space, astronaut, nocturnal	Listen attentively and respond to what they hear with relevant answers. Show an ability to follow instructions involving several ideas or actions. Be confident to try new activities Use a range of small tools Safely use and explore a variety of materials, tools and techniques. Explore the natural world around them, making observations and drawing pictures of animals and plants. Participate in discussions, offering their own ideas, using recently introduced vocabulary. Offer explanations for why things might happen Express their ideas and feelings about experiences. Know some similarities and differences (drawing on their own experiences)	Forest school- Exploradome- Space

Reception : Term 3 and 4	The Natural World- Planting seeds Life cycle of a frog	Explore natural materials, indoors and outside Begin to understand the need to respect and care for the natural environment and all living things,	<ul><li>1.Observe and describe how seeds and bulbs grow into plants</li><li>2. Explore parts of the flower.</li></ul>	Frog spawn Tadpole Froglet Frog Grow Change Leaf Stem Root Seed Soil	Forest school- pond dipping Life cycle of a frog- tadpoles in class.
Reception: Term 5 and 6	The Natural World - Animals Changes in the natural world, including states of matter Chicks Sustainability - Recycling	Explore natural materials, indoors and outdoors,	<ol> <li>Identify and name a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets).</li> </ol>	Egg Chick Claws Wings Beak Life cycle	Noah's Ark Chicks in class.
Year 1: Term 1 and 2	Animals including humans (Biology)	In EYFS children were able to explore the natural world around them, making observations of the chicks and tadpoles.	<ol> <li>What are the main parts of my body and how do they help me to use my senses?</li> <li>What animals will I see around my school and what other animals do I know?</li> <li>Do all animals eat the same foods?</li> <li>Why do different animals have different shaped bodies?</li> <li>Identify and name a variety of common animals including fish, amphibians,</li> </ol>	animals fish amphibians birds reptiles mammals carnivores herbivores omnivores sight touch hearing smell taste head neck arms legs knees face ears eyes hair	Educational visit- Puxton Park project animal workshop. Forest school- pond dipping

			reptiles, birds and	mouth		
			/	teeth		
			mammals.			
				elbows		
			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 which			
			part of the body is associated with each sense.			
Year 1:	Everyday	In EYFS children were	1. How can we sort objects	material	asking simple questions and	
Term 3 and	materials	able to explore and	into groups based on their	wood	recognising that they can be	
, or the or area	(Chemistry)	safely use a variety of	material?	plastic	answered in different ways	
4		materials, tools and		glass	<ul> <li>observing closely, using</li> </ul>	
		techniques through	2. How can we describe the	metal	simple equipment	
		junk modelling.	properties of everyday	water	• performing simple tests •	
			materials?	rock	identifying and classifying	
				paper hard/soft stretchy/stiff	<ul> <li>using their observations and</li> </ul>	
			3. How can we compare	shiny/dull bendy/rigid	ideas to suggest answers to	
			and group materials based	waterproof/not waterproof	questions	
			on their properties?	absorbent/not absorbent	• gathering and recording data	
				opaque/transparent	to help in answering questions.	
			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			
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Year 1: Term 5 and 6	Plants (Biology)	In EYFS children attend Forest school sessions, they grow plants and are able to explore the natural world around them.	variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties. 1. What plants do 1 know? 2. What plants do 1 plants are around our school? 3. What are the different parts of a plant? 4. What happens to the seed when 1 plant it?	seed, seedling, shoot, grow, bigger, germinate, stem, leaves, root, light, shade, water, warmth beech tree, sycamore tree, yew tree, chestnut tree, oak tree, birch tree, ash tree, plant, flower,	Forest school: Tree identification Growing sunflowers
Year 1 : Ongoing	Seasonal changes	In EYFS children attended Forest School sessions and were able to explore the natural world around them, some children would be able to identify seasonal changes.	<ol> <li>What are weather patterns and how do these change with the seasons?</li> <li>What is a season and how can we compare them?</li> <li>Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies</li> </ol>	weather Spring Summer Autumn Winter year day night moon	Forest school- Seasonal changes

Year 2: Term 1 and 2	Animals including Humans (Biology)	Year 1: Animals including Humans.	<ol> <li>What is offspring and do all offspring look like their parents?</li> <li>What do all animals and humans need to survive?</li> <li>What is a healthy meal and why is it important?</li> <li>Why is exercise important for humans?</li> <li>Notice that animals, including humans have offspring that grow into adults.</li> <li>Find out and describe the basic needs of animals including humans, for survival (water, food and air).</li> <li>Describe the importance of exercise for humans, eating the right amounts of different types of food and hygiene.</li> <li>How are different</li> </ol>	<ul> <li>Survival</li> <li>Water</li> <li>Air</li> <li>Food</li> <li>Adult</li> <li>Baby</li> <li>Offspring</li> <li>Exercise</li> <li>Hygiene</li> </ul>	Forest School- Den
Year 2: Term 3 and 4	Uses of Everyday Materials Chemistry	Everyday Materials (Year 1)	<ol> <li>How are different materials suited to different uses? (waterproof investigation) properties suitability</li> <li>How can we change the shape of a material?</li> </ol>	<ul> <li>Properties</li> <li>Suitability</li> <li>Squashing</li> <li>Bending</li> <li>Twisting</li> <li>Stretching</li> </ul>	Forest School- Den building. (creating a waterproof shelter).

Year 2: Term 5 and 6	Living things and their habitats (Biology)	Animals including Humans (X1) Plants (X1)	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 bending, twisting, stretching 1. How can we describe something is living or non- living? 2. How are living things suited to the habitats in which we find them? 3. What habitats can we find in our local environment? 4. How do animals find their food and what does this look like in different habitats? Explore and compare the differences between things that are living, dead, and things that have never been alive.	Habitat Micro-habitat Environment Seashore Ocean Woodland Rainforest Living Dead Food chain Predator Prey	asking simple questions and recognising that they can be answered in different ways observing closely, using simple equipment performing simple tests • identifying and classifying using their observations and ideas to suggest answers to questions • gathering and recording data to help in answering questions.	Wındmill Hill Farm
			Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the			

Year 3:	Animals	Animals including	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. 1.What are the different	• nutrition	asking relevant questions
Term 1	including humans Biology	humans- Year 1 & 2	food groups and why are they important for my body? 2. How can we use our understanding of food groups to decide what to eat in a day? 3. What bones are in my body and what job does the skeleton do? 4. How do the bones and muscles in our body help us to move? Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot	<ul> <li>diet</li> <li>skeletons</li> <li>muscles</li> <li>support</li> <li>Protection</li> <li>movement</li> </ul>	<ul> <li>asking relevant questions and using different types of scientific enquiries to answer them</li> <li>Setting up simple practical enquiries, comparative and fair tests.</li> <li>Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.</li> <li>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.</li> </ul>

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			make their own food;		Recording findings using
			they get nutrition from		simple scientific
			what they eat		language, drawings,
					labelled sigrams , keys,
			Identify that humans and		bar charts and tables.
			some other animals have		<ul> <li>Reporting on findings</li> </ul>
			skeletons and muscles		from enquiries, including
			for support, protection		pral and written
			and movement		explanations, dusplays or
					presentations of results
					and conclusions.
					<ul> <li>Using results to draw</li> </ul>
					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.
Year 3	Light	Everyday materials-	1. What is light and why	• Light	<ul> <li>setting up simple</li> </ul>
	Light	Year 1	do we need it?	<ul> <li>dark</li> </ul>	practical enquiries,
Term 2	Physics		2. Which materials	reflection/reflective	comparative and fair
			reflect the light the best?	source	tests
			3. How can we protect	<ul> <li>shadow</li> </ul>	
			ourselves from the sun?	<ul> <li>opaque</li> </ul>	
			4. How are shadows	- opuque	
			formed and why do they		
			change shape and size?		

			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 an opaque object. Find patterns in the way that the size of shadows change			
Year 3 :Term 3	Rocks Chemistry	Mary Anning- Year 1 Everyday Materials- Year 1	<ol> <li>How can we sort and compare rocks based on their different properties?</li> <li>Which rocks are best for different purposes?</li> <li>What is a fossil and how do they form?</li> <li>What is soil and how can we</li> </ol>	<ul> <li>soil</li> <li>fossil</li> <li>palaeontology</li> <li>matter</li> <li>organic</li> <li>sedimentary rock</li> <li>sandstone</li> <li>granite</li> <li>marble</li> <li>pumice</li> <li>crystals</li> <li>absorbent</li> </ul>	See above	Expert visitor- Geologist Earth Science workshop Bristol University

	Forces and Magnets Physics	Everyday Materials- Year 1	describe its properties? 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 trapped within rock Recognise that soils are made from rocks and organic matter 1. What is a force and how can it make objects move? 2. How can different surfaces slow down the speed of objects? 3. What is a magnet and how does it behave? magnet/magnetic force push pull attract repel poles 5. How can we identify magnetic materials?	<ul> <li>magnet/magnetic</li> <li>force</li> <li>push</li> <li>pull</li> <li>attract</li> <li>repel</li> <li>poles</li> </ul>		
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			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 on which poles are facing		
Year 3 Term 5 and 6	Plants- Biology	Growing- Reception Plants- Year 1 Plants- Year 2	<ol> <li>What are the different parts of a flower and why are they important?</li> <li>Do all plants need the same things to be healthy?</li> </ol>	<ul> <li>water</li> <li>support</li> <li>reproduction</li> <li>pollination</li> <li>seed formation</li> </ul>	Forest school

			<ul> <li>3. How is water transported within a plant?</li> <li>4. How do flowers support the lifecycle of a flowering plant?</li> <li>Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and</li> </ul>	<ul> <li>seed dispersal</li> <li>transportation</li> </ul>		
			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			
	Suga	Combon have the	within plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal	Sund		
Year 4 — Term 1	Sound (Physics)	Explore how things work (Nursery) Describe what they see, hear and feel whilst outside (Reception) Identify, name, draw and label the basic parts of the human body and say which body part is associated with each sense. (YI- Animals including humans)	<ol> <li>What do I know about sound?</li> <li>How are sounds made? How do sounds travel? How can I make a louder / quieter sound?</li> <li>What happens to the sound as I move away?</li> <li>How can we protect our each</li> </ol>	Sound Source Vibration Travel Pitch Volume Faint Insulation	<ul> <li>Year 4</li> <li>Asking relevant questions and using different types of scientific enquiries to answer them.</li> <li>Setting up simple practical enquiries,</li> </ul>	

from very loud sounds?	comparative and fair tests.
5. What is the best material to insulate sound? What is pitch?	<ul> <li>Making systematic and careful observations and</li> </ul>
ldentify how sounds are made, associating some of them with something vibrating.	where appropriate taking accurate measurements using standard units,
Recognise that vibrations from sounds travel through a medium to the ear.	using a range of equipment, including thermometers and
Find patterns between the pitch of a sound and features of the object that produced it Find patterns between the volume of a	data loggers. • Gathering, recording, classifician and
sound and the strength of the vibrations that produced it. Recognise that sounds get	classifying and presenting data in a variety of ways to help in answering
fainter as the distance from the sound source increases.	questions • Record findings using scientific
	language, drawings, labelled digrapms, keys, bar charts and
	tables. • Report 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, siggest improvements and raise further questions • Identifying differences, similarities or changes related to simple scientific ideas and processes • Using straightforward scientific evidence to answer questions
Electricity – Physics	Explore how things work (Nursery)	<ol> <li>What is electricity and what appliances need electricity to work?</li> <li>What is an electrical circuit and what does it need to work?</li> <li>How can I complete a circuit using different components?</li> <li>What materials conduct and insulate electricity?</li> </ol>	<ul> <li>circuit</li> <li>cells</li> <li>wires</li> <li>bulb</li> <li>switch</li> <li>buzzer</li> <li>conductor</li> <li>insulator</li> </ul>	•

Identify common appliances that run on electricity	• Taking measurements, using
	0
	explanations of and

Year 4- Term 3 and 4	States of matter- Chemistry	Everyday materials (Year 1 and 2) Water, weather and climate (Year 3. Geography)	<ol> <li>What are solids, liquids and gases and how are they different? 2. What makes a material change its state?</li> <li>How does temperature affect the state of substances and how can we measure it? 4. What is evaporation and how does temperate affect the rate of evaporation?</li> <li>What are the key processes in a water cycle?</li> <li>Compare and group materials together, according to whether they are solids, liquids or gases</li> <li>Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degress Celsius (°C)</li> </ol>	<ul> <li>state</li> <li>matter</li> <li>solid/s</li> <li>liquid/</li> <li>gas/es</li> <li>water cycle</li> <li>evaporation</li> <li>condensation</li> <li>chemical change</li> <li>Particles</li> <li>Temperature</li> <li>freezing</li> <li>heating</li> </ul>	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 • See above
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Year 4 Term 5	Animals including humans (Biology)	Food chains- living things and their habitats (Year 2)	Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature 1. What teeth do we have and why do we need them? 2. How do we look after our teeth? What is tooth decay and why does it happen? 3. What happens to the food I eat? (We The Curious) 4. What can an animal 's	<ul> <li>digestive system</li> <li>oesophagus</li> <li>small intestine</li> <li>large intestine</li> <li>carnivore</li> <li>herbivore</li> </ul>	• See above	Educational visit- We the curious Digestive system workshop
			<ul> <li>4. What can an animal s teeth tell us about what they eat?</li> <li>5. What factors influence food chains?</li> <li>Describe the simple functions of the basic parts of the digestive system in humans</li> <li>Identify the different types of teeth in humans and their simple functions</li> </ul>	<ul> <li>incisor</li> <li>canine pre – molar</li> <li>molar</li> <li>food chain</li> <li>producer</li> <li>predator</li> <li>prey</li> </ul>		
			Construct and interpret a variety of food chains, identifying producers, predators and prey			
Year 4- Term 6	Living things and their habitats- Biology	Living things and their habitats- Year 2	<ol> <li>What is a classification key and how are they used?</li> <li>2. How can a classification key help me to identify leaves in my local area?</li> </ol>	<ul> <li>Vertebrate</li> <li>Invertebrate</li> <li>Flowering</li> <li>Non-flowering</li> <li>Ecology</li> </ul>	• See above	Forest school- identify leaves

			2			
			3. How can we			
			identify and			
			classify living			
			things in our wider			
			environment?			
			4. Why do			
			environments			
			change and how			
			does this affect			
			living things?			
			5 5			
			Recognise that living things			
			can be grouped in a variety			
			of ways			
			oj wags			
			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			
Year 4/5-	Evolution and	Year 1- Mary Anning	1. What is offspring and	<ul> <li>Fσssils</li> </ul>	• See above	Longleat
	inheritance	5 5	how do they vary to their	<ul> <li>Palaeontology</li> </ul>		5
Term 1		Year 2- Animals	parents?	<ul> <li>Offspring</li> </ul>		
		including humans (	F ·····	<ul> <li>Adaptation</li> </ul>		
		animals and humans	2. How are living things	<ul> <li>Variation</li> </ul>		
		have offspring which	adapted to their	<ul> <li>Evolution</li> </ul>		
		argue inte adulta)	environment and how does	_		
		grow into adults)		Environment		
		Year 3- Rocks	it lead to evolution?	Characteristics		
		Describe in simple		<ul> <li>Reproduction</li> </ul>		
		terms how fossils are	3. How can we use fossils	• Genetics		
		formed when things	to understand the past?			
		that have lived are				
		trapped within rock.	Recognise that living things			
		Year 3- Plants	have changed over time and			
		Explore the part that	that fossils provide			
		flowers play in life	information about living			
		5 1 3 3	J J			

		cycle of flowering plants, including pollination, seed formation and seed dispersal.	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.			
Year 4/5- Term 2	Light-	Light- Year 3	<ol> <li>How can we describe the way light travels?</li> <li>How does light make us see objects?</li> <li>Why do shadows have the same shape as the objects that form them?</li> <li>Recognise that light appears to travel in straight lines</li> <li>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</li> <li>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</li> </ol>	<ul> <li>Light</li> <li>Refraction</li> <li>Reflection</li> <li>Spectrum</li> <li>Rainbow</li> <li>Colour</li> </ul>	• See above	

			Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them			
Year 4/5: Term 3 and 4	Forces- Physics	Forces and magnets- Year 3	<ol> <li>Why do objects fall to Earth and what affects the rate of fall?</li> <li>What is friction and how does it affect the movement of objects?</li> <li>How do gears, levers and pulleys affect forces?</li> <li>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</li> <li>Identify the effects of air resistance, water resistance and friction that act between moving surfaces</li> <li>Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect</li> </ol>	<ul> <li>Gravity</li> <li>Air resistance</li> <li>Water resistance</li> <li>Friction</li> <li>Mechanisms</li> <li>Levers</li> <li>Pulleys</li> <li>Gears</li> </ul>		Park visit- forces
Year 4/5: Term 5	Animals including humans- Biology Jigsaw Changing me (PSHE) taught alongside this)	Years 1-4: Animals Including Humans	<ol> <li>How do humans change and develop with age?</li> <li>Describe the changes as humans develop old age.</li> </ol>	<ul> <li>Foetus</li> <li>Embryo</li> <li>Womb</li> <li>Gestation</li> <li>Baby</li> <li>Toddler</li> <li>Teenager</li> <li>Elderly</li> <li>Growth</li> </ul>	•	

Year 4/5: Term 6	Living things and habitats- Biology	Year 1- Animals Including Humans	<ol> <li>What differences can we identify in the lifecycles of animals?</li> <li>How do plants reproduce?</li> <li>Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</li> <li>Describe the life process of reproduction in some plants and animals</li> </ol>	<ul> <li>Development</li> <li>Puberty</li> <li>Life cycle</li> <li>Reproduction</li> <li>Insect</li> <li>Mammal</li> <li>Amphibian</li> <li>Bird</li> <li>Offspring</li> <li>Asexual</li> <li>Sexual</li> </ul>	•	
Year 6: Term 1	Animals Including Humans- Biology	Year 1-5: Animals Including Humans	and animals 1. Why do humans need a circulatory system and how does it work? 2. How do your lifestyle choices affect the way your body functions? x 2 lessons 3. How are nutrients and water transported around our bodies? Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood Recognise the impact of diet, exercise, drugs and	<ul> <li>Skeletal system</li> <li>Muscular system</li> <li>Digestive system</li> <li>Circulatory system</li> <li>Heart</li> <li>Blood vessels</li> <li>Veins</li> <li>Arteries</li> <li>Oxygenated</li> <li>Deoxygenated</li> <li>Valve</li> <li>Exercise</li> <li>Respiration</li> <li>Nutrients</li> </ul>	<ul> <li>Year 5 / 6</li> <li>Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.</li> <li>Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.</li> <li>Recording data and results of increasing complexity using</li> </ul>	Outdoor learning: explore the impact of exercise and circuits on their bodies.

Space-Physics Space	Ilifestyle on the bodies function Describe the wor nutrients and w transported wit including huma	describe the herical	•	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 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.	Expert visitor- The Space Dome.
Year I chang			axis orbit		

			<ul> <li>2. Why does day and night occur?</li> <li>4. Why does the Moon appear to change shape over time?</li> <li>Describe the movement of the Earth, and other planets, relative to the Sun in the solar system</li> <li>Describe the movement of the Moon relative to the Earth</li> <li>Describe the Sun, Earth and Moon as approximately spherical bodies</li> <li>Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky</li> </ul>	<ul> <li>spherical body</li> <li>celestial body</li> <li>phases of the Moon</li> <li>constellation</li> <li>Mercury</li> <li>Venus</li> <li>Earth</li> <li>Mars</li> <li>Jupiter</li> <li>Saturn</li> <li>Uranus</li> <li>Neptune</li> <li>Pluto (dwarf planet)</li> </ul>	
Year 6- Term 3 and 4	Properties and changes in materials- Chemistry	Year 1- Everyday Materials Year 2- Uses of Everyday Materials Year 3- Forces and Magnets	<ol> <li>How can we compare and group everyday materials based on their properties?</li> <li>How do substances dissolve in liquids?</li> <li>How can we separate solutions?</li> <li>Why are some materials better suited for certain purposes?</li> <li>Why are some changes irreversible?</li> </ol>	<ul> <li>substance</li> <li>solution</li> <li>hardness</li> <li>solubility</li> <li>transparency</li> <li>conductivity</li> <li>solid</li> <li>liquid</li> <li>gas</li> <li>Filtration</li> <li>Evaporation</li> <li>reversible/irreversible</li> <li>changes</li> </ul>	We the Curious- Colourful chemistry workshop

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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		

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			burning and the action of			
Year 6- Term 5	Electricity	Year 4- Electricity	acid on bicarbonate of soda 1. How can I correctly draw and represent a circuit using scientific symbols? 2. How does voltage affect the way components function in a circuit? Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off	<ul> <li>cells</li> <li>wires</li> <li>bulbs</li> <li>switches</li> <li>buzzers</li> <li>battery</li> <li>circuit</li> <li>series</li> <li>conductors</li> <li>insulators</li> <li>amps</li> <li>volts</li> </ul>		
Year 6- Term 6	Living things and habitats- Biology	Year 1- Animals Including Humans	position of switches Use recognised symbols when representing a simple circuit in a diagram 1. What are the common characteristics of different organisms and animals? 2. How can we classify plants and animals based on their specific characteristics?	<ul> <li>Classification</li> <li>Vertebrates</li> <li>invertebrates</li> <li>micro-organisms</li> <li>amphibians</li> <li>reptiles</li> <li>mammals</li> <li>insects</li> </ul>		

Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals	
Give reasons for classifying plants and animals based on specific characteristics	