

	Science Subject Overview							
	Autumn		Spr	ing	Sur	nmer		
Preschool	Explore different parts of the body – facial features.	Seasonal Change – Autumn.	Seasonal changes - Winter	Seasonal changes - Spring Looking at beach, the sea and sea creatures Planting seeds and exploring how plants grow.	Mini-beast hunt Making a bug hotel Life cycle of a frog/ caterpillar Show respect for living things and the natural environment	Seasonal changes – Summer. Use all their senses in hands on exploration of natural resources such as soil, seeds and water. Understand the lifecycle of a plant. Explore how we have grown from babies to starting Reception.		
Reception	Growing and changing from babies to adults Parts of the body	Seasonal changes- Autumn Nocturnal animals Hibernation/ animal homes Explore the natural world around them – light and shadows	Seasonal changes – Winter Explore the natural world around them - Freezing and Melting Explore the natural world around them - Investigate materials/textures / magnets/ Waterproof	Explore the natural world around them - Investigate floating and sinking Name and describe different sea creatures - research sea creatures and their environment Sustainability - Plastic pollution	Seasonal changes- Spring Mini-beast hunt Observing minibeast - similarities and differences Looking after living things Life cycle of a butterfly	Seasonal changes – Summer Naming different parts of a plant Looking after living plants Life cycle of tadpoles and butterflies Growing plants under different conditions		



		Find out what plastic pollution is and how it impacts the ocean.	Life cycle of stick insects and ladybird	Healthy Eating		
	and drawing pictures of animals and pla around them and contrasting environm	ear the children will be able to: I level of development will: - Explore the natural world around them, making and plants; 15 - Know some similarities and differences between the natural world new processes and changes in the natural world around them, including the se				
Year 1	<ul> <li>Animals, including humans         <ul> <li>identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</li> <li>identify and name a variety of common animals that are carnivores, herbivores and omnivores</li> <li>describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)</li> <li>identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.</li> </ul> </li> <li>Seasons –Autumn &amp; Winter         <ul> <li>observe and describe weather associated with the seasons and how day length varies.</li> </ul> </li> </ul>	<ul> <li>Everyday materials</li> <li>distinguish between an object and the material from which it is made</li> <li>identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock</li> <li>describe the simple physical properties of a variety of everyday materials</li> <li>compare and group together a variety of everyday materials on the basis of their simple physical properties.</li> <li>Seasons - Spring</li> <li>observe changes across the four seasons</li> <li>observe and describe weather associated with the seasons and how day length varies.</li> </ul>	<ul> <li>Plants</li> <li>identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</li> <li>identify and describe the basic structure of a variety of common flowering plants, including trees.</li> <li>Sustainability – Caring for the planet</li> <li>Sustainability – Growing and cooking</li> <li>Seasons – Summer</li> <li>observe changes across the four seasons</li> <li>observe and describe weather associated with the seasons and how day length varies.</li> </ul>			



	nimals, including humans	Uses of everyday	Plants	Living things and	Animals, including
• fir	nd out about and describe the basic	materials	<ul> <li>observe and</li> </ul>	their habitats	humans – Life
ne	eeds of animals, including humans,	<ul> <li>identify and</li> </ul>	describe how	<ul> <li>explore and</li> </ul>	cycles
	or survival (water, food and air)	compare the	seeds and bulbs	compare the	<ul> <li>notice that</li> </ul>
	escribe the importance for humans	suitability of a	grow into mature	differences	animals,
	f exercise, eating the right amounts	variety of	plants	between things	including
	f different types of food, and		<ul> <li>find out and</li> </ul>	that are living,	humans, have
hy	ygiene.	materials,	describe how	dead, and	offspring which
		including wood,	plants need	things that have	grow into adults
SU	stainability – Wildlife	metal, plastic,	water, light and a	never been alive	
		glass, brick, rock,	suitable	<ul> <li>identify that</li> </ul>	
		paper and	temperature to	most living things	
		cardboard for particular uses	grow and stay	live in habitats to which they are	
		<ul> <li>find out how the</li> </ul>	healthy.	suited and	
		shapes of solid		describe how	
		objects made		different habitats	
		from some		provide for the	
		materials can be		basic needs of	
		changed by		different kinds of	
		squashing,		animals and	
		bending, twisting		plants, and how	
		and stretching.		they depend on	
		Ũ		each other	
		Sustainability –		<ul> <li>identify and</li> </ul>	
		Plastic		name a variety	
				of plants and	
				animals in their	
				habitats,	
				including	
				microhabitats	
				<ul> <li>describe how</li> </ul>	
				animals obtain	
				their food from	
				plants and other animals, using	
				the idea of a	
				simple food	



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	<ul> <li>describe magnets as having two poles</li> <li>predict whether two magnets will attract or repel each other, depending on which poles are facing.</li> </ul>			
Year 4 States of matter • 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 temperature at which this happens in degrees Celsius (°C) • identify the part played by evaporation and condensation in the water cycle	Sound • 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 object that produced it • find patterns between the volume of a sound and the strength of the vibrations that	<ul> <li>Electricity</li> <li>identify common appliances that run on electricity</li> <li>construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</li> <li>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</li> <li>recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</li> <li>recognise some common conductors and insulators, and associate metals with being good conductors.</li> </ul>	<ul> <li>Animals including humans</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> <li>construct and interpret a variety of food chains, identifying producers, predators and prey.</li> </ul>	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 environments can change and that this can sometimes pose dangers to living things. Sustainability - Deforestation



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evo ten	e rate of aporation with nperature.	• recognise that sounds get fainter as the distance from the sound source increases.			
uns obj tow bed ford act the falli • ide effe resi resi fric bet suff • rec son me incl pul ged smo	plain that supported jects fall wards the Earth cause of the ce of gravity ting between e Earth and the ling object entify the ects of air istance, water istance and ction, that act tween moving faces cognise that	<ul> <li>Space</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>Materials</li> <li>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</li> <li>know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution</li> <li>use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating</li> <li>give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic</li> <li>demonstrate that dissolving, mixing and changes of state are reversible changes</li> <li>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.</li> </ul>	Living things and their habitats • 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.	Animals including humans • describe the changes as humans develop to old age. Sustainability – Plastic pollution



			Sustainability – Plastic Pollution		
Year 6	Animals including	Light	Electricity	Living things and	<b>Evolution and</b>
	humans	<ul> <li>recognise that</li> </ul>	• associate the brightness of a lamp or	their habitats	inheritance
	<ul> <li>identify and</li> </ul>	light appears to	the volume of a buzzer with the	<ul> <li>describe how</li> </ul>	<ul> <li>recognise that</li> </ul>
	name the main	travel in straight	number and voltage of cells used in	living things are	living things have
	parts of the	lines	the circuit	classified into	changed over
	human	<ul> <li>use the idea</li> </ul>	<ul> <li>compare and give reasons for</li> </ul>	broad groups	time and that
	circulatory	that light travels	variations in how components	according to	fossils provide
	system, and	in straight lines to	function, including the brightness of	common	information
	describe the	explain that	bulbs, the loudness of buzzers and the	observable	about living
	functions of the	objects are seen	on/off position of switches	characteristics	things that
	heart, blood	because they	use recognised symbols when	and based on	inhabited the
	vessels and blood	give out or	representing a simple circuit in a	similarities and	Earth millions of
	<ul> <li>recognise the</li> </ul>	reflect light into	diagram.	differences,	years ago
	impact of diet,	the eye		including	<ul> <li>recognise that</li> </ul>
	exercise, drugs	<ul> <li>explain that we</li> </ul>		microorganisms,	living things
	and lifestyle on	see things		plants and	produce
	the way their	because light		animals	offspring of the
	bodies function	travels from light		<ul> <li>give reasons for</li> </ul>	same kind, but
	<ul> <li>describe the</li> </ul>	sources to our		classifying plants	normally offspring
	ways in which	eyes or from light		and animals	vary and are not
	nutrients and	sources to		based on	identical to their
	water are	objects and		specific	parents
	transported	then to our eyes		characteristics.	<ul> <li>identify how</li> </ul>
	within animals,	<ul> <li>use the idea</li> </ul>			animals and
	including	that light travels			plants are
	humans.	in straight lines to			adapted to suit
		explain why			their environmen
		shadows have			in different ways
		the same shape			and that
		as the objects			adaptation may
		that cast them.			lead to evolution
					Sustainability –
					Light pollution



		Sustair	nability –
		Renew	vable
		energy	y