	EYFS Early Years Outcomes	Early Learning Goals
	Physical Development	They handle equipment and tools effectively, including pencils for writing. Children know the importance for good health of physical exercise, and a healthy diet, and talk about ways to keep healthy and safe.
	Communication and Language	Children listen attentively in a range of situations. They give their attention to what others say and respond appropriately, while engaged in another activity. Children follow instructions involving several ideas or actions. They answer 'how' and 'why' questions about their experiences and in response to stories or events. They develop their own narratives and explanations by connecting ideas or events. They use past, present and future forms accurately when talking about events that have happened or are to happen in the future.
EYFS and R	Understanding the World	They know about similarities and differences between themselves and others Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur, and talk about changes. They select and use technology for particular purposes. Children recognise that a range of technology is used in places such as homes and schools.
	Expressive Arts and Design	They safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Children use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology
	Personal, Social and Emotional Development	They are confident to speak in a familiar group, will talk about their ideas, and will choose the resources they need for their chosen activities. They say when they do or don't need help. They work as part of a group or class, and understand and follow the rules. They take account of one another's ideas about how to organise their activity.

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	<u>Ourselves</u>	<u>Seasons</u>	<u>Plants</u>	<u>Animals</u>	<u>Materials</u>
Year 1	• Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	 Observe and describe weather associated with the seasons and how day length varies. Observe changes across the four seasons 	 Identify and name a variety of common and wild garden plants including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants including trees 	 Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of animals that are carnivores, herbivores and omnivores. Describe and compare the structure describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) 	 Distinguish between and object and a 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.

	4	Animals including humans	<u>Uses of materials</u>	<u>Plants</u>	Living things and their habitats	Environmental changes
Year 2	•	Notice that animals, including humans have offspring which grow into adults. Find out about and describe the basic needs of animals, including humans, for survival (water, food, air). Describe the importance for humans of exercise,	 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 	 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. 	 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 	 Look closely at the natural and humanly-constructed world around them Use simple scientific language to talk about what they have found out Communicate their ideas to a range of audiences in a variety of ways.

eating the right amounts	can be changed by	animal and plants and how	
of different types of	squashing, bending,	they depend on each other.	
food, and hygiene.	twisting and stretching.	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.	

	Animals including h	umans Forces and Magnets	Rocks	<u>Light</u>	<u>Plants</u>
Year 3	 Identify animal in humans need then types and amount nutrition, and that cannot make their food: they get nut from what they ed Identify that hum some other animal skeletons and mus support, protection movement. 	ightmove on differentofsurfacestheyNotice that someownforces need contactritionbetween tow objects,t.but magnetic forces canans andact at a distance.s haveObserve how magnetscles forattract or repel each	 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 	 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. 	 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

	they are attracted to a		formation and seed
	magnet, and identify		dispersal.
	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.		

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		<u>Sound</u>	<u>Electricity</u>		Animals including humans		<u>Living things and their</u>		<u>States of matter</u>
							<u>habitats</u>		
	•	Identify how sounds are	 Identify common 	٠	Describe the simple			٠	Compare and group
		made, associating some of	appliances that run on		functions of the basic	•	Recognise that living things		materials together,
		them with something	electricity.		parts of the digestive		can be grouped in a variety		according to whether
		vibrating	• Construct a simples		system in humans.		of ways.		they are solids, liquids or
	•	Recognise that vibrations	series electrical circuit,	•	Identify the different	•	Explore and use		gasses.
		from sounds travel	identify and naming its		types of teeth in humans		classification keys to help	•	Observe that some
		through a medium to their	basic parts, including		and their simple functions.		group, identify and name a		materials change state
Year		ear.	cells, wires, bulbs,	•	Construct and interpret a		variety of living things from		when they are heated or
4	•	Find patterns between	switches and buzzers.		variety of food chains,		their local and wider		cooled, and measure or
		the pitch of a sound and	• Identify whether or not		identifying producers,		environment.		research the
		features of the object	a lamp will light in a		predators and prey.	•	Recognise that environments		temperature at which
		which produced it.	simple series circuit,				can change and this can		this happens in degrees
	•	Find patterns between a	based on whether or				sometimes pose dangers to		Celsius
		volume of a sound and the	not the lamp is part of a				living things.	•	Identify the part played
		strength of the vibrations	complete loop with a						by evaporation and
		that produced it.	battery.						condensation in the
	•	Recognise that sounds get	• Recognise that a switch						water cycle and associate
		fainter as the distance	opens and closes a						

from the sound source	circuit and associate		the rate of evaporation
increases.	this with whether or		with temperature
	not a lamplight in a		
	simple series circuit.		
•	Recognise some common		
	conductors and		
	insulators, and		
	associate metals with		
	being good conductors.		

		<u>Materials</u>	Earth and Space	Forces	Animals including humans	Living Things and Their
Year 5	•	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), response to magnets. To know the some materials will dissolve in liquid to forma solution, and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to describe how mixtures might be separated, including through	 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 approximate 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. 	 Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and falling object. Identify the effects of air resistance, water resistance and friction that act between moving surfaces. 	 Describe the changes as humans develop into old age 	 Living Trings and Their Habitats - Circle of Life Describe the differences in the life cycles in a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals.

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		
bar carbonate of soda		

	<u>Habitats</u>	<u>Light</u>	Animals including humans	Evolution and inheritance	<u>Electricity</u>
Year 6	 Describe how living things are classified in to broad groups according to common observable characteristics and based on similarities and differences, including 	 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. 	• Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.	• Recognise that living things have changed over time and that fossils provide information about living things that	• Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.

micro-organisms, plants	• Explain that we see things	• Recognise the impact of diet,	inhabited the Earth	Compare and give
and animals.	because light travels from	exercise, drugs and lifestyle	millions of years ago.	reasons for variations
• Give reasons for	light sources to our eyes or	on their way their bodies	 Recognise that living 	in how components
classifying plants and	from light sources to	function.	things produce	function, including the
animals based on specific	objects and then to our	• Describe the ways in which	off-spring of the same	brightness of bulbs, the
characteristics.	eyes.	nutrients and water are	kind, but normally	loudness of buzzers and
	 Use the idea that light 	transported within animals,	off-spring vary and	on/off position of
	travels in straight lines to	including humans.	are not identical to	switches.
	explain why shadows have		their parents.	• Use and recognise the
	the same shape as the		 Identify how animals 	symbols when
	objects that cast them.		and plants are adapted	representing a simple
			to suit their	circuit in diagram
			environment in	
			different ways and	
			that adaptation may	
			lead to evolution.	
			• (Fossils, evolution of	
			animals, adaptation)	