## **Science Progression 2021-2022**

Year 1	Seasonal changes - Autumn Changes across the four seasons Weather associated with each season Varying day length	made of Everyday ma plastic, glass rock	the materials they are terials such as wood, metal, water and cal properties of terials	Seasonal changes - Winter Changes across the four seasons Weather associated with each season Varying day length	Animals, inclunumans Common animal groups fish, amp reptiles, birds an Carnivores, herbomnivores Structure of animpets Naming basic pahuman body The 5 senses	s in the hibians, od mammals ivores and nals including	Seasonal changes - Spring Changes across four seasons Weather associated with each season Varying day leng	evergreer Structure common	ants, s and n trees of flowering	Seasonal changes - Summer Changes across the four seasons Weather associated with each season Varying day length
Year 2	Things that are dead, things that are living, and things that have never been alive  Different habitats and		nce between bulbs eds ulbs that will flower in	Materials Suitability of everyday materials for particular uses Changing objects from some materials by squashing, bending, twisting and stretching		Animals, including humans Offspring of humans and other animals which grow into adults Basic needs of animals, including humans for survival Importance of exercise, eating the right amounts of different types of food, and hygiene		Plants Plant seeds that flower sooner bulbs Plants need walight and suital temperature to and stay health	at will than later, and later,	Living things and their habitats 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
Year 3	Rocks Rocks with different appearances and simple physical properties Fossils are formed when things that have lived are tripped within rock over time Soils are made from rocks and organic matter		Animals, including Animals, including hur right types and amour They cannot make the they get nutrition from Humans and some oth have skeletons and mu support, protection an	Imans need the Int of nutrition eir own food – In what they eat ther animals nuscles for Image Dark is the a We need light is reflesurfaces  Light from the dangerous a		p see things plants: roots, ste leaves and flowe Plants require lig nutrients from so to grow in order		em/rock, ers ght, water, soil, and room r to live and tation in plants flowering	different surfaces Some forces need contact between two objects, but magnetic forces can act at a distance Magnets attract or repel each plants other, and attract some materials but not others	

				seed formation and seed dispersal	Some everyday materials will be attracted to a magnet Magnetic materials Magnets have two poles: north and south. Depending on which poles are facing each other, magnets will either attract or repel each other
Year 4	Animals, including humans The digestive system in humans Different types of human teeth and their simple functions Food chains that include producers, predators and prey	Living things and their habitats Grouping living things in different ways Classification keys How environments change over time, sometimes posing dangers to living things	Sound Sounds are vibrations that travel through a medium to the ear The object making the sound can determine the pitch The volume of the sound is affected by the strength of the vibrations that produced it Sounds get fainter as the distance from the sound source increases	Electricity Many common appliances run on electricity Electrical circuits that contain cells, wires, bulbs, switches and buzzers Conductors and insulators	States of matter Solids, liquids and gases Changing state due to heating and cooling at certain temperatures Evaporation and condensation in the water cycle
Year 5	Earth and space  Movement of the Earth and other planets in relation to the sun in the solar system  Movement of the Moon relative to the Earth Earth's rotation resulting in day and night, and the apparent movement of the Sun across the sky	Materials The hardness, solubility, transparency, conductivity (electrical and thermal) and response to magnets of everyday materials Solutions formed by materials dissolving in liquid Separation of mixtures including filtering, sieving and evaporating Uses of everyday materials	Forces Unsupported objects fall towards the Earth because of gravity acting between the Earth and the falling objects Air resistance, water resistance and friction that act between moving surfaces Mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect	Living things and their habitats Different life cycles of mammals, amphibians, insects and birds Process of reproduction in some plants and animals	Animals, including humans Changes in humans from birth to old age
Year 6	Electricity Lights and buzzers dependent on the number and voltage of cells used in electrical circuits Variations of components, such as brightness of bulbs, loudness of	Light Light travels in straight lines Objects are seen because they give out or reflect light into the eye We see things because light travels from light sources to our eyes or	Evolution and inheritance Fossils provide information about living things that	Living things and their habitats Living things are classified into broad groups according to	Animals, including humans The circulatory system in humans

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bu	uzzers, and on/off positions of	from light sources to objects and	inhabited the Earth millions	characteristics and are based	Functions of the heart, blood
SW	witches	then to our eyes	of years ago	on similarities and differences	vessels and blood
Sy	ymbols of simple circuits in	Shadows have the same shape as the	Living things have changed	Classifying plants and animals	Impact of diet, exercise, drugs
dia	iagrams	objects that cast them	over time	based on specific	and lifestyle on the way their
			Living things produce	characteristics	bodies function
			offspring of the same kind,		How nutrients and water are
			but normally offspring vary		transported within animals,
			and are not identical to		including humans
			parents		
			Animals and plants are		
			adapted and suit their		
			environment in different		
			ways		
			Adaptation may lead to		
			evolution		