Science Curriculum Overview Reception - Y6

For more information about what each class covers in their units each term, please see the downloads area.

Year group	Autumn topics		Spring topics		Summer topics	
	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
Reception	**Seasons, ourselves and the human body**	**Space Exploration – planets and gravity**	**Melting and Freezing – changing states of matter**	**Growing habitats and life cycles**	**Seasonal changes**	**Sinking and floating** STEM
Year 1	**Everyday materials** How can we identify everyday materials, explore their basic properties, and distinguish them from the objects they are used to make?	**Seasonal Changes** How do the seasons change, and how do weather and daylight vary throughout the year?	**Identifying Animals** (not including humans) How can we identify and compare different types of animals, their diets, and their body structures?	**Identifying Plants** How can we identify different types of plants and describe the basic structures that make up flowers and trees?	**Animals including humans - My Body** How can we identify the main parts of the human body and understand the senses they help us use?	**Everyday materials** How can we choose materials for different purposes by exploring their properties and testing how well they work in real situations?
Year 2	**Animals including humans** How do animals, including humans, grow and survive, and what helps humans stay healthy?	**Living things and their habitats** How can we distinguish living things from non-living things, explore different habitats, and understand how animals get their food through simple food chains?	**Animals including humans** How do animals, including humans, begin life and grow into adults?		**Plants** How do seeds and bulbs grow into healthy plants, and what conditions do they need to survive?	**Everyday materials** How can we decide which materials are best for different uses, and how can their shapes be changed?
Year 3	**Rocks** How can we compare different rocks, understand how fossils form, and explain what soil is made from?	**Functions and parts of a plant** How do the parts of a plant work together to help it grow, survive, and reproduce?	**Forces & magnets** How do different forces affect movement, and how do magnets attract, repel and interact with different materials?	**Animals including humans – nutrition & the human body** How do animals, including humans, get the nutrition they need, and how do their skeletons and muscles support, protect and help them move?	**Light** How does light help us to see, what makes shadows form and change, and how can we keep ourselves safe from the sun?	
Year 4	**Animals including humans** How does the human digestive system work, what roles do our different teeth play, and how	**Electricity** How do electrical circuits work, and how can we use switches, components and different		**States of Matter** How do materials behave as solids, liquids or gases, how do they change state, and what	**Living things and their habitats** How can we group living things and use classification keys to	**Sound** How are sounds made and transmitted, and how do vibration, pitch, volume and

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	can food chains help us understand producers, predators and prey?	materials to control and conduct electricity?		roles do evaporation and condensation play in the water cycle?	identify and name organisms in different environments?	distance affect what we hear?
Year 5	**Properties of materials** How can we compare and group materials based on their properties, understand how substances dissolve and can be separated, and explain why materials are used for specific purposes?	**Changes of materials** How can materials change, which changes are reversible or irreversible, and how can we recover substances from solutions?	**Earth and Space** How is our solar system organised, and how have scientific ideas about Earth's movement, the Moon and the cycle of day and night developed over time?	**Forces** How do different forces such as gravity, friction and resistance affect movement, and how can mechanisms like levers, pulleys and gears make forces more effective?	**Animals, including humans** How do humans change and develop throughout the stages of life?	**Living things and their habitats** How do different animals grow, reproduce and change across their life cycles, and what can we learn from scientists who study these processes?
Year 6	**Living things and their habitats** How can we classify living things into kingdoms, and what can investigations teach us about how organisms grow and reproduce?	**Evolution and inheritance** How do living things inherit traits and evolve over time, and what evidence from fossils and scientific discoveries helps us understand these processes?	**Animals including humans** How does the human circulatory system work, and how do factors like diet, exercise and lifestyle affect how our bodies function and transport nutrients and water?	**Light** How does light travel, how does this allow us to see, and why do objects cast shadows that match their shape?		**Electricity** How do changes in voltage affect the way electrical components work, and how can we use standard symbols to represent and understand circuits?