

## Key Themes and Concepts - Progression within Science

Within our science curriculum, there are five broad themes: materials, physical processes, plants, animals and human biology. Children visit these themes at different times on their journey through the school, as part of their topics. Four areas within the physical processes theme are taught outside the main topics in Years 3 and 4, as small, discrete units.



Materials	Physical processes	Plants	Animals	Human Biology
		<u>YR All about me</u> Autumn walk	<u>YR All about me</u> Autumn walk	<u>YR All about me</u> All about me
	<u>YR Celebrations</u> Light and dark			
	<u>YR The world around us</u> Weather	<u>YR The world around us</u> Winter walk,	<u>YR The world around us</u> Winter walk	
<u>YR Our world in danger</u> recycling	<u>YR Our world in danger</u> Launching rockets,	<u>YR Our world in danger</u> Signs of spring,	<u>YR Our world in danger</u> Signs of spring,	
		<u>YR Plants and creatures</u> Growing plants, summer walk	<u>YR Plants and creatures</u> Life cycle of a butterfly, minibeasts	<u>YR Plants and creatures</u> Healthy choices inc food
<u>Y1 Brilliant Brunel:</u> Materials and their properties		<u>Y1 Brilliant Brunel:</u> Seasons	<u>Y1 Dinosaur Discovery:</u> Identifying animals	<u>Y1 Me and My World:</u> parts of the body
		<u>Y1 Castles and Dragons:</u> Seasons Structure of plants and trees		
<u>Y2: Living in London</u> Materials and their uses		<u>Y2: Why don't penguins live in the North Pole?</u> What are living things? Habitats and food chains	<u>Y2: Why don't penguins live in the North Pole?</u> What are living things? Habitats and food chains	<u>Y2: Life in Uganda:</u> Animals including humans: basic needs, and offspring
<u>Y2: Flying High</u> Materials and their uses		<u>Y2: What's it like to live in Uganda:</u> Growing plants	<u>Y2: Life in Uganda:</u> Animals including humans: basic needs, and offspring	
<u>Y3 Settlements on our shores</u> Rocks and soils inc fossils	<u>Y3 Light and shadows</u> <u>Y3 Magnets and forces</u>	<u>Y3 A Greek holiday</u> Parts of plants, requirements for growth and the life cycle of plants	<u>Y3 Settlements on our shores</u> Rocks and soils inc fossils	<u>Y3 Settlements on our shores</u> Skeletons
<u>Y4 Living by The Severn</u> Solids, liquids and gases; Changing state including The Water Cycle	<u>Y4 Electricity</u> <u>Y4 Sound</u>		<u>Y4 Living by The Severn</u> Classification keys and food chains	<u>Y4 Ancient Egypt :</u> Digestive system, teeth and nutrition
	<u>Y5 To Infinity and Beyond</u> Planets, the Earth, Moon and Sun; Light;	<u>Y5 Amazonia</u> Reproduction in plants and animals	<u>Y5 Amazonia</u> Life cycles of different animals, including humans, from birth to old age	<u>Y5 Amazonia</u> Life cycles of different animals including humans, from birth to old age

	Electricity including voltage and circuit diagrams		Reproduction in plants and animals	
	<u>Y5 Viking Invaders</u> Forces – air resistance, friction and water resistance			
<u>Y6 The Mayans</u> Compare and group materials based on properties; Separating mixtures, dissolving and solutions, reversible and irreversible			<u>Y6 Explorers</u> Adaptations and evolution. Classification	<u>Y6 Wars that Changed the World</u> Circulatory system, diet and lifestyle and nutrients