

Science Curriculum Map

	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Early Years	Pupils begin their science learning journey in the Early Years Foundation Stage. Child initiated topics within 'Understanding Our World' are explored and specific themes are led by the interests of the cohort. Specific statements from 'Development Matters' are taught through high quality practical and exploratory experiences to ensure a purposeful transition from EYFS to KS1. In Reception , we encourage children to explore the natural world and describe what we see, hear and feel whilst outside. Children may also be able to recognise that some environments might be different to the one that we live in. The Early Learning Goal is for children to explore the natural world around them, making observations and drawing pictures of animals and plants. Children will know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. They will understand some important processes and changes in the natural world around them including the seasons and states of matter. Examples of previous learning include- growing seeds, bulbs, cress. Exploring the 5 senses. Investigating using different everyday materials-fizzing experiments, floating, sinking, freezing, melting. Healthy bodies- including diet and exercise. How different forms of transport move. Life cycles e.g. Frog, butterfly, sunflower.											
Year 1	LS Seasons (2 weeks) Introduce LS to ensure transition from EYFS to KS1		Animals – Senses (4 weeks) KB 1: Animal senses	Describing Materials (6 weeks) KB 1: The big idea about materials. Identify, name, describe, compare and group materials	Changing Materials (3 weeks) (Clothing) Identify and compare suitability. Waterproof - Claude	LS Seasons (2 weeks)	Plants (8 weeks) - Germination KB 1: Where do plants come from? KB 2: Plant survival KB 3: How plants get what they need to survive		LS Seasons (2 weeks)	Animals- Survival (9 weeks) KB 1: Feeding for survival. KB 2: Moving for survival.		
Year 2	LS (1 week) Introduce. Seasons knowledge	Animals including humans (5 weeks) KB 1: Animal timelines. KB 2: Exercise, diet and hygiene		Changing Materials (6 weeks) KB 1: How materials can change.	Forces (6 weeks) KB 1: How things move. KB 2: Forces change how objects move. KB 3: Making forces bigger.		LS (1 week) Revisit linked to seasons	Living things and their habitats (6 weeks) KB 1: Classifying living things. KB 2: Adaptation for survival. KB 3: How animals get their food.		LS (1 week) Link to habitats	New Plants (6 weeks) KB 1: What flowers are for KB 2: What happens after a plant has produced seeds	
Year 3	Rocks & Soils (6 weeks) KB 1: The different types of rocks KB 2: The properties of rocks KB 3: The structure of soils			Light (6 weeks) KB 1: Light and sight. KB 2: What light does when it hits materials KB 3: How shadows change.		Forces (6 weeks) KB 1: What magnets do. KB 2: Magnets don't need to touch. KB 3: Magnets attract and repel. KB 4: What affects magnet strength.		Plants Food Production (6 weeks) KB 1: Plants don't go to McDonalds		Plants Reproduction (6 weeks) KB 1: The reproductive parts of a flowering plant. KB 2: All flowers are similar but different. KB 3: Seed dispersal. KB 4: What a seed does		Animals, including humans (6 weeks) KB 1: Skeletons protect vital organs. KB 2: Skeletons support weight. KB 3: Skeletons support movement.
Year 4	Electricity (6 weeks) KB 1: Electricity as a power source. What batteries do. KB 2: Making devices work harder. KB 3: Insulators and conductors.			States of Matter (8 weeks) KB 1: Properties of solids, liquids and gases KB 2: Changing state KB 3: Melting, freezing, boiling and condensation temperatures. KB 4: All about the water cycle		Animals, including humans (8 weeks) KB 1: Food groups. KB 2: Variation in animals' diet. KB 3: How humans digest food.		Living things and their habitats (5 weeks) KB 1: Classifying living things. KB 2: Environmental change.		Sound (9 weeks) KB 1: Describing sound. KB 2: How sound is made and travels. KB 3: Pitch and volume changes.		
Year 5	Space & Gravity (6) KB 1: Our solar system. KB 2: Gravity and its effects.			Forces (8) (resistance, pulleys, friction) KB 1: Effects of air resistance, water resistance and friction. KB 2: Pulleys allow a smaller force to have a greater effect.		Living things and their habitats (lifecycles) (7 weeks) KB 1: Animal lifecycles. KB 2: Plant lifecycles.		Fossils, Geological Time and Classification (5 weeks) KB 1: What is evolution and how do we know it happened? KB 2: Evidence for evolution. KB 3: Classification of life.		Materials (mixtures and separating them) (5 weeks) KB 1: What mixtures are KB 2: What dissolving is KB 3: Separating mixtures		Materials (making new substances) (5 weeks) KB 1: Reversible and irreversible changes
Year 6	Classification and Evolution (6 weeks) KB 1: Natural selection KB 2: How Charles Darwin discovered the process of evolution by Natural selection			Electricity (8 weeks) KB 1: Controlling electrical circuits. Electrical current. KB 2: Electrical resistance.		Light (8 weeks) KB 1: How light behaves. KB 2: How lights behaves when it hits objects. KB 3: How we see.		Animals (6 weeks) KB 1: Getting oxygen into the blood. KB 2: The blood circulation model		Sex Ed (including life cycles)		