Science Curriculum map

Types of scientific enquiry

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Early Learning Goals Explore the natural world around them, making observations and drawing pictures of animals and plants 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 Understand some important processes and changes in the natural world around them, including seasons and changing states of matter					
Year 1	**Animals including humans**: Categorising animals Identifying and classifying	**Plants:** Naming and identifying plants and trees Observations over time	**Everyday Materials:** Name and identify materials and their properties. Fair Testing	**Everyday Materials:** Name and identify materials and their properties. Problem Solving	**Animals including humans:** Human body Research	**Plants:** Structure of a plant Pattern Seeking
Year 2	**Everyday Materials:** Identify and classify different materials for real life purposes. Problem Solving	**Everyday Materials:** Identify and compare which materials would be most and least suitable for a real life task. Observations over time	**Animals including humans:** Offspring that grow into adults. Needs for survival Staying healthy. Identifying grouping and Classifying	The four seasons: Observations over time Observe changes across the four seasons **Plants:** Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Growing plants. Fair Testing	**Living things and their habitats:** Living, dead, never alive. Habitats Research	**Living things and their habitats**: How animals obtain food and food chains. Habitat suitability Pattern Seeking
Year 3	**Forces and Materials:** Compare how things move on different surfaces. Magnetic/non-magnetic materials. Fair Testing	**Light:** Reflection Shadows and patterns Sun protection Observations over time	**Rocks:** Compare and group rocks based on properties. Fossils Research	**Plants:** Functions of a plant Requirements of a plant for growth and survival. How to transport water in plants. Problem Solving	**Plants:** Pollination, seed formation and seed dispersal. Pattern Seeking	**Animals including humans:** Nutrition Skeletons and muscles. Identifying, grouping and classifying
Year 4	**Sound:** How sounds are made Vibrations Patterns Pattern Seeking	**States of matter:** Solids, liquids, gases Changing states Identifying, grouping, classifying	**States of matter:** Evaporation and condensation Observations over time	**Electricity:** Making and troubleshooting electrical circuits including lamps and switches Fair Testing	**Living things and their habitats:** Grouping and classifying plants and animals using branching databases Environmental dangers to living things. Problem Solving	**Animals including humans:** Digestive system Teeth Construct and interpret a variety of complex food chains Research
Year 5	**Properties and changes of materials:** Dissolving Filtering, sieving and evaporation Reversible/irreversible changes of state Patter Seeking	**Earth and space:** Describe movement of the moon, earth and other planets. Night and day Observations over time	**Properties and changes of materials:** Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday material Irreversible changes to materials Fair Testing	**Animals including humans:** Describe the changes as humans develop to old age (Supported by PSHE curriculum) Research	**Forces:** Gravity, air resistance and friction. Recognise that some mechanisms, including levers, pulleys and gears allow a smaller force to have greater effect Problem Solving	**Living things and their habitats**: describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life processes of reproduction in some plants and animals Identifying, grouping and classifying
Year 6	**Living things and their habitats:** Give reasons for classifying plants and animals based on specific characteristics Identifying, grouping and classifying	**Light:** How light travels in straight lines, Light and sight Fair testing	**Evolution and inheritance:** How living things have changed over time. Offspring Animal adaptations Pattern Seeking	**Electricity:** tage and effect on brightness and sound. How components function Use recognised symbols when representing a simple circuit in a diagram. Problem Solving	**Animals including humans:** rculatory system function of heart, blood vessels and blood. Impact of diet, exercise, drugs and lifestyle. How water is transported through humans and animals. Observations over time	**Elements:** Atoms Recognise that atoms join with other different atoms to form molecules/chemical compounds Research