Science: Whole school overview

	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5
EYFS	In EYFS, children develop early scientific understanding by exploring the natural world, noticing changes, observing living things and materials, and beginning to ask simple questions about what they see. Through hands-on play, stories, investigations, and real-world experiences, they build the curiosity, observation skills, and scientific vocabulary that prepare them for the more structured scientific learning and Working Scientifically skills introduced in Key Stage 1.				
Year 1/2 Cycle A	**Animals, including Humans (Y1)** Name common animals, carnivores, herbivores and omnivores Describe the structure of common animals	**Everyday materials (Y1)** Identify and name a variety of everyday materials. Describe their simple physical properties and use these to compare and group materials.	**Animals, including Humans (Y2)** Animals have offspring that grow into adults. Basic needs of animals for survival.	**Uses of everyday materials (Y2)** Uses of materials Changing shape of materials	**Animals, including Humans (Y2)** Importance of exercise, food hygiene.
Year 1/2 Cycle B	**Plants (Y1)** Identify and name common plants and describe their basic structure.	**Animals, including Humans (Y1)** Body parts and their associated senses	**Plants (Y2)** Seed/bulb grow into plants. What plants need to grow and be healthy.	**Living things and their habitats (Y2)** Name plants and animals in their habitat and identify how habitats meet their needs	
	Seasonal changes studied across the year Describe changes over the four seasons including weather and day length				
Year 3	**Rocks** Types of rock, soil and fossils	**Animals including Humans** Skeleton, Muscles and Nutrition	**Forces and Magnets** Magnetic poles, magnetic materials, movement on different surfaces	**Light** Light and dark, reflection and shadows	**Plants** Life cycle of a flowering plant, plant parts, what plants need
Year 4	**Electricity** Common appliances, electrical circuits, conductors & insulators	**Sound** Vibrations, pitch and volume	**States of Matter** Solids, liquids and gas, changing state and water cycle	**Animals including Humans** Skeleton, Muscles and Nutrition	**Living things and their habitats.** Grouping and classifying, changes to environments
Year 5/6 (Cycle A)	**Electricity** Reasons for variations in how components in a circuit function; circuit diagrams	**Forces** Gravity, water resistance, air resistance and friction	**Light** Understand and use the fact that light travels in straight lines to explain sight and shadows	**Living things and their habitats** Compare and classify microorganisms, plants and animals giving reasons based on characteristics	**Animals including humans** Changes as humans develop from birth to old age
Year 5/6 (Cycle B)	**Properties and changes of materials** Reversible and irreversible changes; separating mixtures and solutions: explaining uses of materials through comparative and fair tests.	**Evolution and Inheritance** Changes over time, offspring and adaptations	**Animals including Humans** Circulatory system, exercise, diet and nutrition	**Earth and Space** Movement of earth and planets relative to sun; movement of moon relative to Earth; Earth's rotation to explain day and night.	**Living things and their habitats** Life cycles and reproduction