Science Whole School Overview

Teaching of Science provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Pupils are taught to 'work scientifically' understanding methods, processes and uses of science; 'working scientifically' is not be taught as a separate strand but embedded within the content of biology, chemistry and physics taught.
The teaching of science is progressive and linked to other subject disciplines. Retrieval practice and low stakes testing is used during lesson to enable knowledge to be transferred into long-term memory to address know knowledge. Links are made throughout the subject and across subjects to enable revision and progression.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Body parts: facial features	Colour Mixing	Changes of state: ice	Floating and sinking	Naming plant parts and planting beans	Animals: butterfly lifecycle
Reception	Body parts	Colour Mixing: adding black and white	Change of state: freezing and melting	Floating and sinking: which materials make the best boats	Growing plants in different conditions	Animals: classify animals, insect, bird and fish. Compare habitats.
Year 1	Animals, including humans (senses and body)	Seasonal Change Autumn/Winter	Everyday Materials Names, properties and grouping	Animals, including humans: Animal groups, animal classification	Plants Naming a variety of plants. Name parts of a plant	Seasonal Change Spring/Summer and compare all
Year 2	Everyday Materials Properties and usage.	Animals, including humans Life Cycles and animals and their young	Animals including humans (healthy living)	Plants Seeds/bulbs and conditions for growth	All living things and their habitats Habitats: urban, woodland and pond Food chains	
Year 3	Light Shadows	Forces and Magnets		Animals, including humans	Plants Life cycle Parts and function of flower	Rocks Rocks, soils and fossils

Year 4	Sound	Animals, including humans Teeth and digestive system	Electricity	All living things and their habitats Habitats: savannah, desert, grassland, urban, aquatic, woodland, forest, tundra Classification Food chains Endangered species/ environmental issues	States of Matter Solids, Liquids and Gases Evaporation and condensation Water cycle
Year 5	Forces Gravity, friction, Air/water resistance	Animals, including humans Human Life Cycle Puberty	Earth in Space	All living things and their habitats Compare life cycles of mammal, amphibian, insect and bird Reproduction in plants and animals	Properties and changes in materials Separating materials Properties: conductivity and dissolving Reversible and irreversible changes
Year 6	Light Straight lines How humans see	Electricity	Living things and their habitats Classification Carl Linnaeus	Animals, including humans Circulatory system	Evolution and Inheritance