

Science Curriculum Overview

	Autumn	Spring	Summer
Nursery/ Reception	Understanding the World <i>Guiding children to make sense of their physical world and their community through opportunities to explore, observe and find out about people, places, technology, and the environment.</i>	Understanding the World <i>Guiding children to make sense of their physical world and their community through opportunities to explore, observe and find out about people, places, technology, and the environment.</i>	Understanding the World <i>Guiding children to make sense of their physical world and their community through opportunities to explore, observe and find out about people, places, technology, and the environment.</i>
Year 1	Animals and Humans <i>Identifying and naming a variety of common animals. Describe and compare the structure of a variety of common animals. Identify, name, draw and label basic parts of the body.</i> Seasonal Changes <i>Observing changes across and weather associated with four seasons.</i>	Everyday Materials Identify, name, compare and distinguish between a variety of everyday materials.	Plants Identify and name a variety of common wild and garden plants, and describe their basic structure.
Year 2	Uses of Everyday Materials Identify and compare the suitability of everyday materials and how their shape can be changed. Investigations linked to the above	Animals, including humans Find out about and describe the basic needs if animals including humans for survival. Describe the importance for humans of exercise, diet and hygiene.	Plants Observe and describe how seeds and bulbs grow into mature plants. Find out and describe what plants need. Living things and their habitats <i>Explore and compare differences between things that are living, dead and things that have never been alive. Identify and name a variety of plants and animals in their habitats.</i>
Year 3	Rocks Compare and group together different kinds of rocks, describe in simple terms how fossils are formed, recognise that soils are made from rocks and organic matter. Animals including humans Identify that animals, including humans need fight types and amounts of nutrition. Identify that humans and some animals have skeletons and muscles.	Forces and Magnets Compare how things move on different surfaces, observe and compare magnets as well as magnetic materials. Light Recognise need for light, explore light reflecting on surfaces, recognise danger of sun and explore formation of shadows.	Plants Identify and describe functions of different parts of plants, explore requirements of plants for life and growth, investigate way water is transported within plants and explore pollination, seed formation and seed dispersal.
Year 4	States of Matter Compare and group materials together, observe changes in state due to temperature. Identify part played by evaporation and condensation in the water cycle. Electricity Identify common appliances that run on electricity, construct simple series electrical circuit. Recognise some common conductors and insulators.	Animals, including humans Describe simple functions of digestive system, identify different types of teeth and their functions, construct and interpret a variety of food chains.	Sound Identify how sounds are made, and find patterns between pitch and volume.
Year 5	Properties and changes of materials Compare and group together everyday materials on the basis of their properties, use knowledge of solids, liquids and gases to decide how mixtures might be separated.	Living things and their habitats Describe differences in life cycles, and the life process of reproduction in some plants and animals. Earth and Space Describe movement of Earth and other planets, describe movement of moon relative to Earth. Use idea of Earth's rotation to explain day and night.	Forces Explain gravity, identify effects of air resistance, water resistance and friction. Explore mechanisms including levers, pulleys and gears, recognising their small force as having a great effect. Animals, including humans Describe the changes as humans develop to old age.
Year 6	Evolution and inheritance Recognise that living things have changed over time, and fossils provide information, recognise that living things produce offspring, identify how plants and animals adapt. Light Recognise that light travels, explain how we see things, use idea that light travels in straight lines to explain shape of shadows. Electricity Compare and give reasons for variations in how components function, use recognised symbols when representing a simple circuit in a diagram.	Animals including humans (Respiratory, circulatory, skeletal and digestive system) Identify and name the main parts of the human circulatory system and describe the functions of the heart, blood vessels and blood. Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. Describe ways in which nutrients and water are transported within animals including humans.	Living things and their habitats Describe how living things are classified into broad groups, give reasons for classifying plants and animals based on specific characteristics.