



Science Curriculum Overview

	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 1	<p>The Human Body</p> <p>Naming parts of the body, the five senses and associated body parts, understanding sensory impairment.</p>	<p>Animals and their Needs</p> <p>Living things, naming animals, grouping animals, describing animals, how plants and animals obtain food, offspring, caring for animal babies, caring for pets.</p>	<p>Seasons and Weather</p> <p>The four seasons, tools to record the weather, daily weather and weather forecasts, weather symbols, weather around the world, floods and hurricanes.</p>	<p>Taking Care of the Earth</p> <p>The Earth's natural resources, conservation of natural resources, logging, recycling, how pollution is caused and can be prevented.</p>	<p>Plants</p> <p>What plants need to grow, the parts and functions of plants, food production, flowers and seeds, deciduous and evergreen, farming, crops, pesticides, harvest, from field to supermarket.</p>	<p>Materials and Magnets</p> <p>Classification of materials, magnets, magnetic attraction.</p>
Year 2	<p>The Human Body</p> <p>The skeletal and muscular systems, exercise, digestive system and healthy eating, circulatory system, preventing illness, germs and disease, animals and their offspring.</p>	<p>Living Things in their Environments</p> <p>Habitats: rainforest, desert, meadow and underground habitats. Food chains, oceans and undersea habitats, deep ocean habitats and habitat destruction and damage.</p>	<p>Electricity</p> <p>Circuits, conductive and non-conductive materials, safety rules.</p>	<p>Plants</p> <p>Seeds and bulbs, plants and water, light, temperature, healthy plants</p>	<p>Materials and Matter</p> <p>Comparing materials, changing materials, concepts of atoms, matter, solids, liquids, gases, measurements.</p>	<p>Astronomy</p> <p>Our solar system, orbit and rotation, sun, moon, planets, stars, constellations.</p>
Year 3	<p>The Human Body</p> <p>The digestive system, teeth and senses, a healthy diet, nutrition, vitamins and minerals, skeletons and muscles for support, protection and movement.</p>	<p>Cycles in Nature</p> <p>Seasonal cycles and plants, animal migration. Life cycles of a plant and a frog.</p>	<p>Light</p> <p>The speed of light, shadows, transparent and opaque objects, reflection, mirrors: plane, concave, convex, the human eye.</p>	<p>Plants</p> <p>Functions of plants: roots, stem/trunk, leaves and flowers, Life and growth, variety of plants, water transportation, seed formation and dispersal</p>	<p>Rocks</p> <p>Sorting rocks, how rocks are formed, hardness and permeability, fossils, soil.</p>	<p>Forces and Magnets</p> <p>Forces, friction, magnets, magnetic poles, magnetic fields, law of magnetic attraction, compasses.</p>

Year 4	<p>The Human Body</p> <p>The muscular system, the skeletal system, the nervous system, the digestive system, teeth.</p>	<p>Classification of Plants and Animals</p> <p>Cold-blooded or warm-blooded, vertebrates or invertebrates, characteristics of animal classes, classification of plants.</p>	<p>Ecology</p> <p>Habitats, interdependence of organisms and their environment, producers, consumers and decomposers, food webs, producers, predators and prey, fossils, man-made threats to the environment.</p>	<p>Sound</p> <p>How sound is created, how sound travels, sound waves, speed of sound, pitch, intensity, the human voice, hearing, the human ear.</p>	<p>States of Matter and the Water Cycle</p> <p>Change of state, evaporation, condensation, precipitation, humidity, groundwater.</p>	<p>Electricity</p> <p>Electric current, series and parallel circuits, switches, closed circuit, open circuit, short circuit, conductors and insulators.</p>
Year 5	<p>The Human Body:</p> <p>Human growth stages, adolescence and puberty, The human reproductive system, The endocrine system.</p>	<p>Materials</p> <p>Properties- solubility, conductivity, flexibility etc, fair testing, solubility, separation of mixtures, reversible changes- dissolving, mixing, change of state.</p>	<p>Living Things</p> <p>Life cycles of a mammal, an amphibian, an insect and a bird, life process of reproduction in some plants and animals, Photosynthesis, vascular and non-vascular plants.</p>	<p>Forces</p> <p>Gravity, friction, air resistance, water resistance, pulleys, gears and levers.</p>	<p>Astronomy</p> <p>The Big Bang theory, gravity, the Universe, our Solar System, the moon and our galactic neighbourhood.</p>	<p>Meteorology</p> <p>Weather and climate, the atmosphere, the Ozone layer, air movement and wind direction, cold and warm fronts, thunder and lightning.</p>
Year 6	<p>The Human Body</p> <p>The circulatory system, the heart, the blood vessels, the blood, blood pressure and heart rate, changes to humans as we get older</p>	<p>Classification of Living Things</p> <p>Classifying organisms, plant and animal cells, fungi, protists, monera, taxonomy, Latin names, vertebrates.</p>	<p>Electricity</p> <p>Brightness, buzzers, voltage, switches, simple circuits and symbols</p>	<p>Light</p> <p>How light travels, Our eyes, light sources, shadows</p>	<p>Reproduction</p> <p>Asexual reproduction, sexual reproduction in non-flowering and flowering plants, pollination, fertilisation, reproduction in animals, growth stages.</p>	<p>Evolution</p> <p>Fossils, adaptation, characteristics passing through generations, Mary Anning, Alfred Wallace, Charles Darwin, Darwin's sketches of finches.</p>