Science Curriculum Overview

	Cycle 1		Cycle 2		Cycle 3	
Early Years	**Human Body** To name different facial parts and features. To name and label different parts of the body leg, head, arm.	**Materials** To know that materials can change and talk about the differences.	**Light and Dark** To know about objects that keep us safe in the dark - torches, reflectors etc. To name some sources of light and what powers them. To know what a nocturnal animal is and name some.	**Animals** To know that all animals have babies. To know the names of animals and their offspring. To know that not all animals look like their babies.	**Plants Life Cycles** To know that plants need water and light to grow. To know that living things grow and change throughout the year. To know lifecycles of a hen, frog and butterfly.	**Forces and Materials** To talk about and explore different forces e.g. floating and sinking. To know that materials can change and talk about the differences.
Year 1	**Human Body** Naming parts of the body, the five senses and associated body parts, understanding sensory impairment.	**Animals and their needs** Living things, naming animals, grouping animals, describing animals, how plants and animals obtain food, offspring, caring for animal babies, caring for pets.	**Seasons and Weather** The four seasons, tools to record the weather, daily weather and weather forecasts, weather symbols, weather around the world, floods and hurricanes.		**Materials and Magnets** Classification of materials, magnets, magnetic attraction.	**Plants** What plants need to grow, the parts and functions of plants, food production, flowers and seeds, deciduous and evergreen.
Year 2	**Materials** Comparing materials, changing materials, concepts	**Astronomy** Our solar system, orbit and rotation,	**Living things and their Habitats**		**Plants** Seeds and bulbs, plants and water,	**Human Body** The skeletal and muscular systems, exercise, digestive

	of atoms, matter, solids, liquids, gases, measurements.	sun, moon, planets, stars, constellations.	Habitats: Rainforest, desert, meadow, and underground habitats. Food chains, oceans and undersea habitats, deep ocean habitats and habitat destruction and damage.		light, temperature, healthy plants.	system and healthy eating, circulatory system, preventing illness, germs and disease, animals and their offspring.
Year 3	**Plants** Functions of plants: roots, stem/trunk, leaves and flowers, life and growth, variety of plants, water transportations, seed formation and dispersal.	**Human Body** The digestive system, teeth and senses, a healthy diet, nutrition, vitamins and minerals, skeletons and muscles for support, protection and movement.	**Forces/Magnets** Forces, friction, magnets, magnetic poles, magnetic fields, law of magnetic attraction, compasses.		**Light** How light travels, shadows, transparent and opaque objects, reflection, mirrors: plane, concave, convex, how shadows change throughout the day.	**Rocks** Sorting rocks, how rocks are formed, hardness and permeability, fossils, soil.
Year 4	**States of Matter** Change of state, evaporation, condensation, precipitation, humidity, groundwater.	**Electricity** Electric current, circuits, switches, conductors and insulators.	**Human Body** The muscular system, the skeletal system, the nervous system, the digestive system, teeth.		**Sound** How is sound created, how sound travels, sound waves, speed of sound, pitch, intensity, the human voice, hearing, the human ear.	**Classification** Cold-blooded or warm-blooded, vertebrates or invertebrates, characteristics of animal classes, classification of plants.

Year 5	**Materials** Properties-solubility, conductivity, flexibility, fair testing, solubility, separation of mixtures, reversible changes, dissolving, mixing, change of state.	**Human Body** Human growth stages, adolescence and puberty, the human reproductive system, the endocrine system.	**Astronomy** The Big Bang Theory, gravity, the universe, our solar system, the moon and our galactic neighbourhood.		**Living things** 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	**Forces** Gravity, friction, air resistance, water resistance, pulleys, gears and levers.
Year 6	**Light** How light travels, our eyes, light sources, shadows, periscopes.	**Evolution** Fossils, adaptation, characteristics passing through generations, Mary Anning, Alfred Wallace, Charles Darwin, Darwin's sketches of finches.	**Electricity** Brightness, buzzers, voltage, switches, simple circuits and symbols.		**Human Body** The circulatory system, the heart, the blood vessels, the blood, blood pressure and heart rate, changes to humans as we get older.	**Classification** Classifying organisms, plant and animal cells, fungi, protists, monera, taxonomy, Latin names, vertebrates.