Science Curriculum

	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 1	<u>The Human Body</u> Naming parts of the body The five senses and associated body parts Understanding sensory impairment	<u>Animals and their Needs</u> Living things Naming animals Grouping animals Describing animals How plants and animals obtain food Offspring Caring for animal babies Caring for pets	<u>Seasons and Weather</u> The four seasons Tools to record the weather Daily weather and weather forecasts Weather symbols Weather around the world Floods and hurricanes	<u>Taking Care of the Earth</u> The Earth's natural resources Conservation of natural resources Logging, recycling How pollution is caused and can be prevented	<u>Plants</u> What plants need to grow The parts and functions of plants Food production Flowers and seeds Deciduous and evergreen	<u>Materials and Magnets</u> Classification of materials Magnets Magnetic attraction
Year 2	<u>The Human Body</u> The skeletal and muscular systems Exercise Digestive system and healthy eating Circulatory system Preventing illness Germs and disease Animals and their offspring	<u>Living Things in their Environments</u> Habitats: rainforest, desert, meadow and underground habitats Food chains Oceans and undersea habitats Deep ocean habitats and habitat destruction and damage	<u>Electricity</u> Circuits Conductive and non-conductive materials Safety rules	<u>Plants</u> Seeds and bulbs Plants and water Light Temperature Healthy plants.	<u>Materials and Matter</u> Comparing materials Changing materials Concepts of atoms Matter Solids, liquids, gases, Measurements	<u>Astronomy</u> Our solar system Orbit and rotation Sun, moon, planets, stars Constellations
Year 3	<u>The Human Body</u> The digestive system Teeth and senses A healthy diet Nutrition, vitamins and minerals Skeletons and muscles for support, protection and movement	<u>Cycles in Nature</u> Seasonal cycles and plants Animal migration Life cycles of a plant and a frog	<u>Light</u> How light travels Shadows Transparent and opaque objects Reflection Mirrors: plane, concave, convex How shadows change throughout the day	<u>Plants</u> Functions of plants: roots, stem/trunk, leaves and flowers Life and growth Variety of plants Water transportation Seed formation and dispersal	<u>Rocks</u> Sorting rocks How rocks are formed Hardness and permeability Fossils Soil	<u>Forces and Magnets</u> Forces Friction Magnets Magnetic poles Magnetic fields Law of magnetic attraction Compasses
Year 4	<u>The Human Body</u> The muscular system The skeletal system The nervous system The digestive system Teeth	<u>Classification of Plants and Animals</u> Cold-blooded or warm-blooded Vertebrates or invertebrates Characteristics of animal classes Classification of plants	<u>Ecology</u> Habitats Interdependence of organisms and their environment Producers, consumers and decomposers Food webs Producers, predators and prey Human threats to the environment	<u>Sound</u> How sound is created How sound travels Sound waves Speed of sound Pitch Intensity The human voice Hearing The human ear	<u>States of Matter and the Water Cycle</u> Change of state Evaporation Condensation Precipitation Humidity Groundwater	<u>Electricity</u> Electric current Circuits Switches Conductors and insulators

Year 5	<u>Astronomy</u> The Big Bang theory Gravity The Universe Our Solar System The moon and our galactic neighbourhood.	<u>Materials</u> Properties-solubility, conductivity, flexibility Fair testing, Solubility Separation of mixtures Reversible changes Dissolving Mixing Change of state	<u>Living Things</u> 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.	<u>Forces</u> Gravity Friction Air resistance Water resistance, Pulleys, gears and levers	<u>The Human Body</u> Human growth stages Adolescence and puberty The human reproductive system The endocrine system	<u>Meteorology</u> Weather and climate The atmosphere The Ozone layer Air movement and wind direction Cold and warm fronts Thunder and lightning
Year 6	<u>The Human Body</u> The circulatory system The heart Blood vessels Blood Blood pressure and heart rate Changes to humans as we get older	<u>Classification of Living Things</u> Classifying organisms Plant and animal cells Fungi, protists, monera Taxonomy Latin names Vertebrates	<u>Electricity</u> Brightness Buzzers Voltage Switches Simple circuits and symbols	<u>Light</u> How light travels Our eyes Light sources Shadows Periscopes	<u>Reproduction</u> Asexual reproduction Sexual reproduction in non-flowering and flowering plants Pollination Fertilisation Reproduction in animals Growth stages	<u>Evolution</u> Fossils Adaptation Characteristics passing through generations Mary Anning Alfred Wallace Charles Darwin Darwin's sketches of finches