Loseley Fields Primary School - Long Term Science Curriculum Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Year 1	The 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. Plants - 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								
			Materials and Magnets Classification of materials, magnets, magnetic attraction	Taking Care of the Earth The Earth's natural resources, conservation of natural resources, logging, recycling, how pollution is caused and can be prevented. Science Biographies Wilburn and Orville Wright Jane Goodall (conservationist) Joseph Banks (botanist)					
Year 2	Living Things in their Environments - Plants Habitats: rainforest, desert, meadow and underground habitats. Plants. Environmental change	The Human Body The skeletal and muscular systems, exercise, digestive system and healthy eating, circulatory system, nervous system, preventing illness, germs and disease. Science Biographies Rosalind Franklin Edward Jenner	Electricity Circuits, conductive and non- conductive materials, safety rules.	Living Things in their Environments - Animals Food chains, oceans and undersea habitats, deep ocean habitats and habitat destruction and damage Classification of animals	Earth and Space Geographical features of the earth. What's inside the earth Our solar system, orbit and rotation, sun, moon, planets, stars, constellations. Science Biographies Mae Carol Jemison	Use of Everyday Materials Identify and compare suitability of a variety of materials for particular uses. How shapes of solid objects can be changed.			
Year 3	Forces and Magnets Forces, friction, magnets, magnetic poles, magnetic fields, law of magnetic attraction, compasses. Science Biographies Archimedes, Aristotle	The Human Body Cells, organ systems, the digestive system, teeth and senses, a healthy diet, vitamins and minerals	Rocks Sorting rocks, how rocks are formed, hardness and permeability, fossils, soil.	Simple Machines examine how simple machines help make work easier, and how they are applied and combined in familiar tools and machines.	Cycles in Nature Seasonal cycles and plants, animal migration. Life cycles of a plant and a frog. Insects Characteristics of insects, habitats, classifying insects, helpful and harmful insects, life cycles, social insects. Science Biography Henry Turner	Matter Concepts of atoms, matter, solids, liquids, gases, measurements. Water Cycle (linked to Geography) Change of state, evaporation, condensation, precipitation, humidity, groundwater.			
Year 4	Classification of Plants and Animals Cold-blooded or warm-blooded, vertebrates or invertebrates, characteristics of animal classes, classification of plants.	Ecology Habitats, interdependence of organisms and their environment, producers, consumers and decomposers, food webs, fossils, man-made threats to the environment	Light The speed of light, shadows, transparent and opaque objects, reflection, mirrors: plane, concave, convex, the human eye.	Astronomy The Big Bang theory, gravity, the Universe, our Solar System, the moon and our galactic neighbourhood. Science Biographies Caroline Herschel Isaac Newton	Sound How sound is created, how sound travels, sound waves, speed of sound, pitch, intensity, the human voice, hearing, the human ear. Science Biographies James West	The Human Body The muscular system, the skeletal system, the nervous system.			

Year 5	The Human Body: Circulation	Chemistry: Basic	Evolution	Electricity	Forces	Geology
	The circulatory system, the heart,	terms and concepts	Fossils, adaptation,	Electric current, series and	Gravity, friction, air resistance,	The Earth's layers, earthquakes,
	the blood vessels, the blood,	Properties- solubility,	characteristics passing through	parallel circuits, switches, closed	water resistance, pulleys, gears	volcanoes, formation of
	blood pressure and heart rate.	conductivity, flexibility etc., fair	generations, Mary Anning, Alfred	circuit, open circuit, short circuit,	and levers.	mountains, formation of rocks
	The respiratory system Process of	testing, solubility,	Wallace, Charles Darwin,	conductors and insulators.	Science Biographies	Meteorology (linked to
	taking in oxygen and getting rid	separation of mixtures, reversible	Darwin's sketches of finches.	Science Biographies	Michael Faraday	Geography)
	of carbon dioxide	changes- dissolving, mixing,		Jagadish Chandra Bose	Charles Darwin	Weather and climate, the
	Science Biographies	change of state.				atmosphere, the Ozone layer, air
	Elizabeth Garrett Anderson					movement and wind direction,
	Florence Nightingale					cold and warm fronts, thunder and
	Charles Drew					lightning.
						Science Biographies
						Zhang Heng
Year 6	Chemistry	Classification of Living Things	Plants	Life Cycles and Reproduction	Life Cycles and Reproduction	Famous Scientists and their
	Atoms, the Periodic Table, metals	Classifying organisms, plant and	Photosynthesis, vascular and	(Plants)	(The Human Body)	discoveries
	and non-metals, molecules,	animal cells, fungi, protists,	non-vascular plants.	Asexual reproduction, sexual	Hormones and reproduction	
	compounds, physical and	monera, taxonomy, Latin names,	Science Biographies	reproduction in non-flowering	Human growth stages,	
	chemical changes.	vertebrates.	George Washington Carver	and flowering plants, pollination,	adolescence and puberty, The	
	Science Biographies	Science Biographies		fertilisation, reproduction in	human reproductive system,	
	Dorothy Hodgkin	Carl Linnaeus		animals, growth stages	The endocrine system and	
	Humphry Davy				glands.	