

Loseley Fields Primary School - Science Long Term Curriculum Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Seasons – The four seasons throughout the year					
	The Human Body - Naming parts of the body, the five senses and associated body parts, understanding sensory impairment.	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	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.	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	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 Jane Goodall (conservationist)
Year 2	The Human Body The skeletal & muscular systems, exercise, digestive system & healthy eating, circulatory & nervous system, preventing illness, germs & disease. Science Biographies Rosalind Franklin,	Living Things in their Environments - Plants Habitats: rainforest, desert, meadow and underground habitats. Plants. Environmental change	Electricity Circuits, conductive & non-conductive materials, safety rules.	Use of Everyday Materials Identify & compare suitability of a variety of materials for particular uses. How shapes of solid objects can be changed.	Earth and Space Geographical features of the earth. What's inside the earth. Our solar system, orbit & rotation, sun, moon, planets, stars, constellations. Science Biographies Mae Carol Jemison	Living Things in their Environments - Animals Food chains, oceans & undersea habitats, deep ocean habitats & habitat destruction & damage Classification of animals
Year 3	Forces and Magnets Forces, friction, magnets, magnetic poles, magnetic fields, law of magnetic attraction, compasses. Science Biographies William Gilbert	The Human Body Cells, organ systems, the digestive system, teeth & senses, a healthy diet, vitamins & minerals	Rocks Sorting rocks, how rocks are formed, hardness & permeability, fossils, soil.	Matter Concepts of atoms, matter, solids, liquids, gases, measurements. Water Cycle (linked to Geog.) Change of state, evaporation, condensation, precipitation, humidity, groundwater.	Cycles in Nature Seasonal cycles & plants, animal migration. Life cycles of a plant & a frog.	Insects Characteristics of insects, habitats, classifying insects, helpful & harmful insects, life cycles, social insects. Science Biography Henry Turner
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 & their environment, producers, consumers & decomposers, food webs, fossils, man-made threats to the environment	Light The speed of light, shadows, transparent & opaque objects, reflection, mirrors: plane, concave, convex, the human eye.	Astronomy The Big Bang theory, gravity, the Universe, our Solar System, the moon & our galactic neighbourhood. Isaac Newton Science Biographies Caroline Herschel,	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 The circulatory system, heart, blood vessels, blood, blood pressure & heart rate. The respiratory system - process of taking in oxygen & getting rid of carbon dioxide	Chemistry: Basic Terms and concepts Properties- solubility, conductivity, flexibility etc., fair testing, solubility, separation of mixtures, reversible changes- dissolving, mixing, change of state.	Meteorology (linked to Geog) Weather & climate, the atmosphere, the Ozone layer, air movement & wind direction, cold & warm fronts, thunder & lightning.	Electricity Electric current, series & parallel circuits, switches, closed circuit, open circuit, short circuit, conductors & insulators. Science Biographies Jagadish Chandra Bose	Forces Gravity, friction, air resistance, water resistance, pulleys, gears & levers.	Geology The Earth's layers, earthquakes, volcanoes, formation of mountains, formation of rocks Science Biographies - Zhang Heng
Year 6	Evolution and adaptation Fossils, adaptation, characteristics passing through generations, Mary Anning, Alfred Wallace, Charles Darwin, Darwin's sketches of finches.	Classification of Living Things Classifying organisms, plant & animal cells, fungi, protists, monera, taxonomy, Latin names, vertebrates. Science Biographies Carl Linnaeus	Plants Photosynthesis, vascular & non-vascular plants. Science Biographies George Washington Carver	Life Cycles and Reproduction (Plants) Asexual reproduction, sexual reproduction in non-flowering & flowering plants, pollination, fertilisation, reproduction in animals, growth stages	Life Cycles and Reproduction (The Human Body) Hormones & reproduction Human growth stages, adolescence & puberty, The human reproductive system, The endocrine system & glands.	Famous Scientists and their discoveries Stephen Hawking Marie Maynard Daily Alexander Fleming Mary Leakey Daniel Hale Williams