Hardwick Primary School – Long term Science Planner

Cohort	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	**Please see the individual Long Term EYFS Plan**					
Year One	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	Taking Care of the Earth The Earth's natural resources, conservation of natural resources, logging, recycling, how pollution is caused and can be prevented.	Plants What plants need to grow, the parts and functions of plants, food production, flowers and seeds, deciduous and evergreen	Materials and Magnets Classification of materials, magnets, magnetic attraction
Year two	The Human Body The skeletal and muscular systems, exercise, digestive system and healthy eating, circulatory system, preventing illness, germs and disease, animals and their offspring	Living Things in their Environments Habitats: rainforest, desert, meadow and underground habitats. Food chains, oceans and undersea habitats, deep ocean habitats and habitat destruction and damage	Electricity Circuits, conductive and non-conductive materials, safety rules	Materials and Matter Comparing materials, changing materials, concepts of atoms, matter, solids, liquids, gases, measurements	Plants Seeds and bulbs, plants and water, light, temperature, healthy plants	Living Things in the environments (2) Identify and name a variety of plants and animals in their habitats, including microhabitats

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Year three	The Human Body The digestive system, teeth and senses, a healthy diet, nutrition, vitamins and minerals, skeletons and muscles for support, protection and movement	Cycles in Nature Seasonal cycles and plants, animal migration. Life cycles of a plant and a frog	Light How light travels, shadows, transparent and opaque objects, reflection, mirrors: plane, concave, convex, how shadows change throughout the day	Plants Functions of plants: roots, stem/trunk, leaves and flowers, Life and growth, variety of plants, water transportation, seed formation and dispersal	Rocks Sorting rocks, how rocks are formed, hardness and permeability, fossils, soil	Forces and Magnets Forces, friction, magnets, magnetic poles, magnetic fields, law of magnetic attraction, compasses
Year four	The Human Body The muscular system, the skeletal system, the nervous system, the digestive system, teeth	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, producers, predators and prey, human threats to the environment	Sound How sound is created, how sound travels, sound waves, speed of sound, pitch, intensity, the human voice, hearing, the human ear	States of Matter and the Water Cycle Change of state, evaporation, condensation, precipitation, humidity, groundwater	Electricity Electric current, circuits, switches, conductors and insulators
Year five	Human Body Growth stages, life cycle, endocrine system and recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function	Materials Properties solubility, conductivity, flexibility, fair testing, solubility, separation of mixtures, reversible changes dissolving, mixing, change of state	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 plant**	Forces **Gravity, friction, air resistance, water resistance, pulleys, gears and levers.**	Astronomy **The Big Bang theory, gravity, the Universe, our Solar System, the moon and our galactic neighbourhood.**	Meteorology Weather and climate, the atmosphere, the Ozone layer, air movement and wind direction, cold and warm fronts, thunder and lightning

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Year six	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	Electricity Brightness, buzzers, voltage, switches, simple circuits and symbols	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	Reproduction Asexual reproduction, sexual reproduction in non-flowering and flowering plants, pollination, fertilisation, reproduction in animals, growth stages