



# Long Term Overview – 2025/2026

<p><b>INTENT</b></p>	<p>As one of the core subjects taught in Primary Schools, we give the teaching and learning of Science the prominence it requires. At Broomfield, we aim to recognise the importance of Science in every aspect of daily life.</p> <p>Our curriculum is aimed at increasing pupils’ knowledge and understanding of our world, and with developing skills associated with Science that allow children to explore the world around them. We endeavour to teach children those transferable skills that enable them to reach other areas of the curriculum by providing opportunities for critical evaluation of evidence and at the same time try to use scientific learning to help support basic skills such as data handling and explanation. Science allows the natural curiosity of the child to develop and we aim to promote this discovery whilst allowing children to use and respect the world around them: both the physical environment and the living organisms. We encourage outdoor learning where possible by using the school grounds, pond and other outdoor spaces in the local area.</p> <p>At Broomfield, our Science teaching offers opportunities for children to develop scientific knowledge and conceptual understanding through the specific topics covered. Through the use of varied teaching methods, we hope that our children will be equipped with the scientific knowledge required to understand the uses and implications of Science, today and for the future. Lessons include the use of a range of methods to communicate their scientific information and present it in a systematic, scientific manner, including I.C.T., diagrams, graphs and charts. We expect the children to develop a respect for the materials and equipment they handle with regard to their own, and other children’s safety.</p> <p>All our year groups use the National Curriculum to provide a structure and skill development for the science curriculum being taught across the school.</p> <p>We strive to ensure that the impact of the Science curriculum we provide will give children the confidence and motivation to continue to further develop their skills into the next stage of their education and life experiences. This confidence is displayed through our annual Science week and Science projects.</p>					
<p><b>IMPLEMENTATION</b></p>	<p><b>Autumn 1</b></p>	<p><b>Autumn 2</b></p>	<p><b>Spring 1</b></p>	<p><b>Spring 2</b></p>	<p><b>Summer 1</b></p>	<p><b>Summer 2</b></p>
<p><b>Foundation</b></p>	<p>The human body Seasons – Autumn Observations</p>	<p>Seasons - winter Forces: push, pull, twist Air transport Water transport in winter – gritters, snow ploughs Animals- hibernation Changes of state – frost, ice (Winter)</p>	<p>Seasons- Spring Our planet Earth - The moon, the sun, the planets in our solar system, space travel, astronauts.</p>	<p>Seasons - Summer Design a garden for the King</p>	<p>Growing and changing Life cycles Animals and their babies Plants and trees – how they grow</p>	<p>Seasons – Summer Changing state of matter; Why do our ice lollies melt? Sun safety Water safety</p>

	Head, eyes, ears, nose, neck, body, arms, legs, knees, elbow, wrist, stomach, back. Spring, Summer, Autumn, Winter Change Weather, hot, cold, warm. Features	Season Winter Cold, ice, frosty Push, pull, twist Air, water, move Grit, melt, snow, ice Hibernation, sleep.	Spring, changes, weather, blossom, growth Planets, Mercury, Venus, Earth, Mercury, Jupiter, Saturn, Neptune, Uranus Sun Stars Astronauts Rocket, space centre, space buggy	Summer, hot, sunny. Garden Plant, grass, trees, soil, path. Grow plant	Growing, changing Life cycle, around, next, before Animals, babies, young, mother, parent. Plants, tress, leaves, branch, stem, roots, trunk. Sun, water, time, soil.	Summer, hot, sunny. Melt, liquid, solid, change. Sun, hat, sun cream, burn Water, drown. Respect
	Head, eyes, ears, nose, neck, body, arms, legs, knees, elbow, wrist, stomach, back. Spring, Summer, Autumn, Winter Change	Season Winter Cold, ice, frosty Grit, melt, snow, ice Hibernation, sleep.	Spring, Growth Planets Sun Stars Astronauts Rocket	Summer, hot, sunny. Garden Plant, grass, trees, soil,	Growing, changing Life cycle, around, next, before Animals, babies. Plants, tress Sun, water, time, soil.	Summer, hot, sunny. Melt, liquid, solid. Sun, hat, sun cream Water, drown.
<b>Year 1</b>	The human body	Seasons and weather	Materials and magnets		Plants	Animals and their needs
Unit vocabulary	Eye, iris, eyelid, eyelash, pupil, vision, reflections, glasses, contact lenses, telescope, microscope, eardrum, deaf, vibration, hearing aid, sound, wave, touch, taste, smell, skin	Seasons, weather, spring, summer, autumn, winter, rain, wind, axis, orbit, tilt, rain gauge, wind vane, thermometer, observe, record, precipitation, cloud, droplet, float, dark, fluffy, storm	Material, everyday, wood, plastic, glass, metal, rock, soft/hard, dark/bright, transparent/opaque, rough/smooth, waterproof/absorbent, bendy/stiff, purpose, properties, magnet, attract, repel, force, invisible, predict, conclusion,		Plants, warmth, light, grow, water, germinate, seeds, healthy, roots, anchor, absorb, stem, leaves, flower, reproduce, survive, evergreen, deciduous, oak, fir,	Birds, fish, amphibians, reptiles, mammals, invertebrates, sorting, grouping, diet, carnivore, herbivore, omnivore, pets, domestic, wild
Focus vocabulary	Eye, iris, eyelid, eyelash, ear, pupil,	Seasons, weather, spring, summer,	Material, everyday, wood, plastic, glass, metal, rock, soft/hard,		Plants, warmth, light, grow, water, roots, stem, leaves, flower	Birds, fish, amphibians, reptiles, mammals,

	vision touch, taste, smell, skin	autumn, winter, rain, wind,	dark/bright, magnet, attract, repel			invertebrates, herbivore, carnivore,
<b>Year 2</b>	The human body	Astronomy	Materials	Plants	Living things	Electricity
Unit vocabulary	Survive, offspring, pollution, skeleton bones, skull, backbone, finger bone, hip bone, toe bone, organs, protect, mouth, tongue, chew, digestion, waste, blood, circulate, heart, lungs, blood cells, oxygen, pump, balanced diet, germs, medicine, injection, exercise	Planet, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, dwarf planet, solar system, orbit, rotate, day, night, axis, seasons,	Materials, properties, purpose, soft, hard, shiny, dull, opaque, transparent, strong, flimsy, engineer, inventor, magnify, microscope, solid, liquid, atoms,	Ash tree, aspen tree, silver birch, oak, sweet chestnut, daisy, bramble, ivy, cow parsley, seed, bulb, germinate, sprout, tulip, onion, daffodil, comparative test, cress, observe, record, predict, crops, pests, harvest	Alive, dead, inanimate, breathe, move, reproduce, eat, habitat, microhabitat, rainforest, desert, adapt, underground, energy, producer, consumer, food chain,	Electricity, energy, appliance, mains, battery, dangerous, safety, caution, electric shock, plug socket, wire, circuit, flow, battery, buzzer, bulb, current, conduct, insulate, pass through,
Focus vocabulary	skeleton bones, skull, backbone, finger bone, hip bone, toe bone, heart, lungs, blood, diet, germs, exercise	Day, night, Earth, planets, solar system, rotate	Materials, properties, purpose, soft, hard, shiny, dull, opaque, transparent, strong, flimsy	Oak, silver birch, sweet chestnut, seed, bulb, sprout, tulip, daffodil	Alive, dead, habitat, rainforest, desert, underground	Electricity, energy, battery, bulb, wire, current, conduct
<b>Year 3</b>	The human body	Cycles in nature	Light	Rocks	Plants	Forces and magnets
Unit vocabulary	Voluntary, involuntary, reflex, heart, joint, spinal cord, oesophagus, intestine, break down, nutrition, saliva, digest, contract, relax, break down, nutrition, saliva, skull, cranium, femur, pelvis,	Spring, Summer, Autumn, Winter, cycle Seasons, Earth, orbit, axis, tilt, planet, Northern Hemisphere, sprout, roots, deciduous, evergreen, dormant, stem/trunk leaves flower pollen anther ovule	Light, dark, source, transparent, opaque, translucent, transmit, reflect, absorb, shadow, predict, investigate, observe	Rock, mineral, hard, Soft, Smooth, Crumbly, Observation, geologist, sediment, layers, sedimentary, metamorphic, pressure, earth's crust, igneous, volcano, magma,	Thrive, wilt, hydrangea, sunflower, cactus (cacti), absorb, roots, stem, transport, pollen, pollination, pollinator, reproduce, seed, anther, stigma, germination, pollination, disperse,	Force, push, pull, contact force, gravity, magnetism, Force, friction, heat, reduce, increase, magnetism, magnet, metal, iron, north, south pole, repel, attract, magnetic field, strong, weak

	teeth: incisors, canines, premolars, molars	reproduce germination bulb seed fruit shoot seed dispersal, hibernate, migrate, metamorphosis		lava, permeable, impermeable, fossil, soil, sandy, chalky, clay, decay	dandelion, sycamore, acorns, poppies,	
Focus vocabulary	Voluntary, involuntary, reflex, heart, joint, spinal cord, digestion, break down	Spring, Summer, Autumn, Winter, cycle Seasons, sprout, roots, stem/trunk leaves, flower, pollen, bulb, seed, fruit, shoot, hibernate	Light, dark, source, transparent, opaque, translucent	Rock, hard, Soft, Smooth, Crumbly, layers, sedimentary, metamorphic, igneous	Roots, stem, sunflower, poppies, dandelions, absorb, transport	Force, push, pull, magnet, magnetism, repel, attract
<b>Year 4</b>	The human body	Classification of plants and animals	Ecology	Sound	States of matter and the water cycle	Electricity
Unit vocabulary	Cell, organs, tissue, nutrition, incisor, canine, premolar, molar, enamel, omnivore, fats, carbohydrates, proteins, fruit and vegetables, vitamins, minerals, calcium	Vertebrates, invertebrates, backbone, internal, skeleton, cold-blooded, warm-blooded, gills, lungs, amphibians, reptiles, birds, mammals, arachnid, mollusc, insects, photosynthesis, reproduce	Habitat, micro-habitat, polar, rainforest, desert, producer, consumer, decomposer, organisms, ecosystem, exotic, native, pollution, emission, chemicals	Vibration, soundwaves, matter, gases, liquids, solids, Concorde, supersonic, volume, pitch, voice cord, voice box	Solid, liquid, gases, water vapour, steam, humidity, evaporate, condense, precipitation, stratus, cumulus, reservoir	Dangerous, safety, caution, electric shock, frayed, plug socket, wire, circuit, battery, flow, bulb, switch, component, filament, insulate, conduct,
Focus vocabulary	Fats, carbohydrates, proteins, fruit and vegetables, vitamins, minerals,	Vertebrates, invertebrates, backbone, amphibians, reptiles, birds, mammals	Habitat, micro-habitat, polar, rainforest, desert, producer, consumer,	Vibration, soundwaves, matter, gases, liquids, solids,	Solid, liquid, gases, water vapour, steam, humidity, evaporate,	Plug socket, wire, circuit, battery, flow, bulb, switch, component
<b>Year 5</b>	The human body	Materials	Living things	Forces	Astronomy	Meteorology
Unit vocabulary	Growth, gestation, puberty, old age, adolescence,	Transparent, opaque, shiny, dull, conductor, insulator, soluble,	Cycle, birth, growth, reproduction, mammal, amphibian,	Increase, decrease, gravity, frictions, air-resistance, water	Astronomy, big bang, theory, universe, space, light year, matter, black	Meteorology, atmosphere, troposphere,

	hormones, metabolism, life expectancy	insoluble, strong, flexible, thermometer, stopwatch, mixture, dissolve, solution, solvent, solubility, evaporate, separate, reversible, irreversible	metamorphosis, hibernation, incubate, larvae, fertilisation, embryo, seed, germinate, sepals, stamens, anthers, pollination	resistance, streamline, parachute, up thrust, float, buoyancy, dependent variable, independent variable, control variable,	hole, solar system, terrestrial, satellite, moon, crescent, Neil Armstrong, Buzz Aldrin	stratosphere, ozone layer, ultraviolet radiation, weather, climate, maritime climate, air mass, anemometer, electrical charge
Focus vocabulary	Growth, gestation, puberty, old age, adolescence,	Transparent, opaque, shiny, dull, soluble, insoluble, reversible, irreversible	Cycle, birth, growth, reproduction, mammal, amphibian, metamorphosis	gravity, frictions, air-resistance, water resistance, dependent variable	Astronomy, big bang, theory, universe, space, Neil Armstrong, Buzz Aldrin	Meteorology, atmosphere, ozone layer
<b>Year 6</b>	Classification	The human body	Electricity	Light	Reproduction	evolution
Unit vocabulary	Classification, organism, fungi, bacteria, cell membrane, nucleus, vacuole, class, genus, species, cnidarian, arthropod, annelid	Atrium, ventricle, valves, aorta, pulmonary circuit, blood vessels, arteries, veins, capillaries, blood pressure, heart rate	Electric shock, circuit, component, filament, insulate, conduct, volts, voltage, cell, kill switch,	Illumination, artificial, source, optic nerve, cornea, iris, retina, hypothesis, shadow, prism, refract, white light, rainbow, periscope, reflect, mirror	Reproduce, asexual, cell division, cloning, regeneration, fertilisation, embryo, seed, germinate, sepals, stamens, anthers, pollination, dispersal, symbiotic, zygote, embryo, foetus	Fossil, palaeontologist, anthropologist, adaption, variation, evolution, inheritance, natural selection, species, extinct, Wallace Line, theory
Focus vocabulary	Classification, organism, fungi, bacteria, cell membrane, nucleus	blood vessels, arteries, veins, capillaries, blood pressure, heart rate	Electric shock, circuit, insulate, conduct, volts, voltage	Source, prism, white light, rainbow, mirror	Reproduce, asexual, cell division, cloning, regeneration	Fossil, adaption, variation, evolution, inheritance
<b>IMPACT</b>	By the end of each Key Stage, all children can apply and understand the skills, knowledge and processes they have been taught so that they are confident learners. The children will be able to ask relevant questions and use different types of scientific enquiries to answer them. Teachers use summative assessments to record the progress and attainment against the National Curriculum expectations. Most importantly children will look forward to Science lessons and enjoy learning about the world.					
<b>Article</b>	Every child can share thoughts freely.					

Every child has access to information.

Every child has the right to an education. Primary education must be free and different forms of secondary education must be available to every child.

Discipline in schools must respect children's dignity and their rights. Richer countries must help poorer countries achieve this.