

Year 1

Theme	Skills & Knowledge	Key Vocabulary
Plants	Identify common plants; name basic parts; explore seasonal changes.	plant, root, stem, leaf, flower, tree, evergreen, deciduous
Animals incl. Humans	Identify animals; classify carnivore/herbivore; name body parts; senses.	mammal, reptile, bird, fish, amphibian, carnivore, herbivore, omnivore
Materials	Identify materials; describe simple properties; compare.	wood, metal, plastic, glass, rock, fabric, hard, soft, shiny, dull
Seasonal Changes	Observe weather changes; recognise seasons.	Spring, Summer, Autumn, Winter, weather, temperature
Working Scientifically	Ask questions; observe; sort; record using charts.	observe, sort, compare, measure, record

Year 2

Theme	Skills & Knowledge	Key Vocabulary
Plants	Observe growth; understand bulbs/seeds; what plants need.	germinate, grow, bulb, seed, sunlight, water, temperature
Animals incl. Humans	Basic needs; exercise; hygiene; simple life cycles.	life cycle, offspring, adult, survival, hygiene
Materials	Properties and uses; suitability; simple changes (bending/heating).	absorbent, flexible, opaque, transparent, waterproof
Living Things & Habitats	Simple habitats; microhabitats; food chains.	habitat, microhabitat, food chain, predator, prey
Working Scientifically	Measure, observe over time; record in tables.	predict, results, data, table, test

Year 3

Theme	Skills & Knowledge	Key Vocabulary
Plants	Functions of parts; water transport; life cycle.	roots, stem, transport, nutrients, pollination
Animals incl. Humans	Skeletons; muscles; nutrition.	skeleton, muscle, joints, nutrients, vertebrate
Rocks	Compare rocks; fossils; soil.	sedimentary, igneous, fossil, soil, erosion
Light	Light sources; reflection; shadows.	reflection, shadow, light source, opaque, translucent
Forces & Magnets	Push/pull; magnetic forces; attraction/repulsion.	magnet, magnetic, force, pole, attract, repel
Working Scientifically	Set up simple tests; measure accurately.	fair test, measure, equipment, pattern

Year 4

Theme	Skills & Knowledge	Key Vocabulary
Animals incl. Humans	Digestive system; teeth; food chains.	digestion, molar, incisor, canine, producer, consumer
Living Things	Classification; grouping.	classify, group, environment, vertebrate, invertebrate
States of Matter	Solids, liquids, gases; heating/cooling; water cycle.	evaporate, condense, melting, freezing, gas
Sound	Vibrations; pitch/volume; travel through media.	vibration, pitch, volume, source
Electricity	Simple circuits; conductors/insulators.	circuit, switch, bulb, wire, conductor, insulator
Working Scientifically	Record using bar charts; identify patterns.	method, results, chart, conclusion

Year 5

Theme	Skills & Knowledge	Key Vocabulary
Animals incl. Humans	Changes in humans; puberty; gestation.	development, reproduction, puberty
Living Things	Life cycles; reproduction in plants/animals.	pollination, fertilisation, metamorphosis, life cycle
Materials	Dissolving; filtering; reversible & irreversible changes.	soluble, solution, dissolve, reaction, irreversible
Forces	Gravity, air resistance, water resistance, mechanisms.	gravity, friction, resistance, lever, pulley, gear
Earth & Space	Solar system; movement of Earth; day/night.	orbit, rotate, axis, planet, solar system
Working Scientifically	Plan enquiries; measure precisely; use line graphs.	variable, accuracy, repeat readings, evidence

Year 6

Theme	Skills & Knowledge	Key Vocabulary
Animals incl. Humans	Circulatory system; lifestyle effects.	artery, vein, pulse, oxygen, circulatory system
Living Things	Classification including microorganisms.	microorganism, classification, species
Electricity	Circuit diagrams; voltage & brightness/volume.	voltage, circuit symbol, component
Light	Light travels in straight lines; how we see.	refraction, reflection, lens, spectrum
Evolution & Inheritance	Inheritance; adaptation; natural selection.	evolution, adaptation, inherited, fossils
Working Scientifically	Independent enquiry; evaluate reliability; present findings.	reliability, conclusion, justification, scientific evidence

EYFS – Understanding the World

Key Themes	Key Learning	Skills Progression	Key Vocabulary
Animals & Plants	Explore living things and their environments	Observe using senses	Plant, animal, leaf
Weather & Seasons	Notice changes over time	Describe what they see	Weather, sun, rain
Materials	Explore materials through play	Compare simple properties	Hard, soft, rough
Scientific Talk	Talk about what they notice	Ask simple questions	Same, different