

Science Curriculum Key Vocabulary Progression Chart

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Working Scientifically question, answer, explore, observe, observing, equipment, identify, sort, group, compare, differences, similar, similarities, describe, measurements, collect, test, results, secondary sources record– diagram, chart</p>	<p>Working Scientifically As Yr. 1 plus: chart, tally, table, pictogram, block diagram / graph, gather, order, patterns, comparatives – hotter/ cooler, older / younger etc.</p>	<p>Working Scientifically As Yr. 2, plus: scientific, enquiry, oral and written explanations, conclusion, predictions, criteria, classify, changes, data, contrast, evidence, improve, secondary sources, guides, keys, construct, interpret research– relevant question equipment– thermometer, microscope, magnifying glass data – gather, standard units, record, classify, present, fair test record– drawings, labelled diagrams, keys, bar charts, tables</p>	<p>Working Scientifically As Yr. 3, plus: increase, decrease, accurate, appearance</p>	<p>Working Scientifically As Yr. 4, plus: plan, variables (independent, dependent, controlled), measurements, accuracy, precise, repeat readings, predictions, further comparative and fair test, identify, classify and describe, patterns, systematic, quantitative measurements, fact, opinion, report data – scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graphs report and present – conclusions, casual relationships, explanations, degree of trust, oral and written display and presentation evidence – support, refute, ideas or arguments subjects - biology, physics, chemistry</p>	<p>Working Scientifically As Yr. 5, plus: causal relationships, degree of trust</p>
<p>Animals including humans fish, birds, insects, mammals, reptiles, amphibians, carnivores, meat-eaters, herbivores, plant feeders, omnivores, habitat, wild animals, pets, senses, hear/hearing, see/seeing, smell/smelling, touch/touching, taste/tasting, body parts, mouth, head, body, neck, arms, eyebrows eyelashes, legs, elbows, wrists, chest, knees, ankle, foot, face, eyes, ears, nose, teeth, wing, claw, tail, beak, fur, feather, fins, scales</p>	<p>Animals including humans survival, water, air, food, reproduce, offspring, grow, adult, young, baby, kitten, calf, puppy, food chain, prey, predator, camouflage, protection, senses, balanced diet, exercise, hygiene, healthy/unhealthy, infection</p>	<p>Animals including humans skeleton, muscles, support, protection, movement, brain, blood vessels, heart, bones, skull, ribs, spine/backbone, joints, sockets, tendons, vertebrates, invertebrates Food Chains and webs food chain, food web, sources of food, survive, nutrients, nutrition, energy, plant, producer, animals, herbivore, prey, carnivore, predator, apex predator, consumer, omnivore habitats - pond, woodland Nutrition needs, survive, growth, water, food, nutrition, nutrients, dietary fibre, carbohydrate, protein, vitamins, minerals, fat, intake, absorb, balanced diet, exercise, healthy, unhealthy</p>	<p>Animals including humans mouth, tongue, teeth, oesophagus, stomach, small intestine, large intestine, nutrients, absorb, canine, incisor, molar, producer, consumer, apex predator</p>	<p>Animals including humans reproduction – sexual, asexual germination, pollination, birth, fertilisation, menstrual cycle, puberty, eggs, live young, egg cell embryo, ovary, placenta, penis, testes, vagina, uterus, function circulatory system, blood, clotting, plasma, oxygenated, deoxygenated blood vessels, capillaries, arteries, veins, lungs, bronchi, wind pipe, diaphragm heart - ventricles, aorta, valve, rate pulmonary vein/artery, red blood cells, white blood cells, oxygen, carbon dioxide, lifestyle, diet, clotting, plasma</p>	

<p>Living things & their habitats</p> <p>alive, living, non-living, dead, move, grow, feed, breathe, needs, water, shelter, heat, habitat, microhabitat, conditions, woodland, meadow, hedgerow, pond, habitat, adapt/adaptations, food chain, carnivore, herbivore, omnivore</p>	<p>Plants</p> <p>Names of: garden plants/wild plants/flowering plants/trees/vegetables</p> <p>leaf/leaves, flower, blossom, petal, fruit, berry, root, bulb, seed, tree, deciduous, evergreen/coniferous, trunk, branch, stem, stalk, reproduce, germinate, growth, seedling, shoot, fully grown, growth, healthy, lifecycle, wither/die, soil, earth, water, light, hot/cold, temperature, nutrients</p>	<p>Plants</p> <p>air, water, part, role, temperature, absorb, soil, well-drained, fertiliser, nutrients, life cycle, reproduction, transport/transportation, pollination, seed formation, seed dispersal</p>	<p>Living things & their habitats</p> <p>classification, classification keys, environment, habitat, fish, reptiles, insects, amphibians, mammals, birds, humans vertebrates - mammals, reptiles... invertebrates - insects, arachnids... human impact plant groups - trees, grasses, flowering and non-flowering plants</p>		<p>Living things & their habitats</p> <p>characteristic, trait, organism, vertebrate, invertebrate, micro-organism/microbes – bacteria, fungus names of invertebrates - arachnid, mollusc, insect and crustacean habitats, ecosystem</p>
					<p>Evolution & Inheritance</p> <p>adaptation, change, evolution, features, characteristic, trait, reproduction, genetics, genes, DNA, chromosomes, inheritance, survival, environment, habitat, conditions, fossils, natural selection, variation, competition</p>
<p>Everyday materials and their uses</p> <p>object, material, wood, paper, plastic, glass, metal, rock, solid, liquid, gas, water, rough, smooth, bright/shiny, dull/dim, property, absorbent, waterproof, bendy, stiff, soft, hard, squashing, squash, bend, flexible, twist, stretch, push, pull, roll, slide, bounce, see through, transparent, opaque names of common materials - cotton, wool, fabric, elastic, foil</p>			<p>States of matter</p> <p>air, oxygen, powder, grain/granular, state, solid, liquid, gas, gaseous, changes of state, particles, water vapour, water cycle, heating/cooling, temperature, degree Celsius, melt, freeze, boil, evaporation, condensation, energy transfer</p>	<p>Properties and changes to materials</p> <p>dissolve, solution, solute, solvent, soluble, insoluble, solubility, mixture, suspension, filter, evaporate, sieve, reversible change, irreversible change, new material, electrical conductivity, thermal conductivity, buoyancy, burning, rusting, gas release</p>	

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Rocks rock, stone, pebble, boulder, absorbent, let water through/permeable, soil, organic matter, sediment, fossil, grains, crystals, layers, texture, crumble, magma, pressure, gas bubbles Names of properties - hard, soft, smooth... Names of common rocks/soil types - marble, chalk, clay, sandstone, pumice...		
	Seasonal change season – autumn, winter, spring, summer days, hours, months, year, day/night, light, dark, shadow, sun, moon, movement weather - rain, windy, sunny...			Earth & Space Earth, planets, sun, star, constellation, moon celestial body, sphere/spherical rotation, spin, phases of moon, axis of rotation, night/day solar system – Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune time zones, orbit, elliptical orbit revolve, sundials, asteroids, comets, meteors, galaxy, light years	
		Forces & magnets force, gravity, push/pull, direction of force, air resistance, streamlined, float/sink, friction, contact, surface, force-meter, magnet, magnetic force, strength, attract, repel, poles - north, south, magnet - bar, ring, button, horse-shoe names of common magnetic and non-magnetic materials		Forces friction, gravity, drag forces, air resistance, water resistance, mechanisms, lever, gears, pulleys, springs, Newtons, transference	
			Electricity electricity, appliance, device, battery power, mains power, circuit - complete/incomplete, circuit symbol, component, series cell, battery, positive, negative, wire, bulb, buzzer, switch, conductor, insulator, plug, socket		Electricity circuit diagrams, circuit symbol, cell, battery, wire, bulb, switch, buzzer, motor, connection circuit - closed, open positive, negative, series circuit, terminal, current, resistance, voltage/volts, amps

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Light light - source, beam, sunlight, direction, names of light sources - torch, ceiling light etc., dark/darkness, reflect, reflective, mirror, shadow, block/absorb, transparent, opaque, translucent, bright, dim			Light reflect/reflective, shadow, absorption, transmission, lenses, optics, prism, rainbow, reflection, refraction, spectrum
			Sound sound, sound source, noise, ear, hearing, vibrate/vibration, travel, sound wave, pitch, tone, volume, loud/quiet, tune, high/low, echo, tuning fork, insulation, conduction, instrument, percussion, string, brass, woodwind		