

Science Curriculum Key Vocabulary Progression Chart

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Working Scientifically question, answer, observe, observing, equipment, identify, sort, group, compare, differences, similarities, describe, find out.</p>	<p>Working Scientifically question, answer, observe, observing, equipment, identify, sort, group, compare, differences, similarities, describe, measurements, test, results, secondary sources record - diagram, chart</p>		<p>Working Scientifically oral and written explanations, conclusion, predictions, criteria, classify, changes, data, contrast, evidence, improve, secondary sources, guides, keys, construct, interpret research - relevant question equipment - thermometer, data - gather, standard units, record, classify, present record - drawings, labelled diagrams, keys, bar charts, tables</p>		<p>Working Scientifically plan, variables, measurements, accuracy, precision, repeat readings, predictions, further comparative and fair test, identify, classify and describe, patterns, systematic, quantitative measurements 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 biology, physics, chemistry</p>	
<p>Animals, excluding humans Model and encourage children to use vocabulary such as: names of animals, live, on land, in water, jungle, desert, North Pole, South Pole, sea, hot, cold, wet, dry, snow, ice Expose children to supplementary vocabulary such as: environment, polar regions, ocean, camouflage Humans Model and encourage children to use vocabulary such as: hair (black, brown, dark, light, blonde,</p>	<p>Animals including humans amphibians, fish, reptiles, mammals, birds (+ 1 example of each) herbivore, omnivore, carnivore head, nose, ear, mouth, teeth, neck, shoulder, arm, elbow, wrist, hand, back, chest, hip, leg, knee, ankle, foot wing, beak, tail, fin, claw, scales, hooves, feathers, fur, beak, paws sight, smell, touch, taste, hearing.</p>	<p>Animals including humans survival, water, air, food reproduce, adult, baby, child, young/old, offspring, stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), kitten, calf, puppy food chain, prey, predator, camouflage, protection exercise, breathing, heartbeat, hygiene, balanced diet germs, disease, food types (examples - meat, fish, vegetables, bread, rice, pasta)</p>	<p>Animals including humans skeleton, skull, ribs, spine, bones, muscles, joints, protect, movement, support, protection, nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water,</p>	<p>Animals including humans Digestive system, digestion, mouth, saliva, tongue, teeth, incisor, canine, molar, premolars, oesophagus, stomach, small intestine, large intestine, rectum, anus, nutrients, absorb, canine, incisor, molar producer, consumer, herbivore, carnivore, omnivore, predator, prey, food chain</p>	<p>Animals including humans womb, foetus, embryo, gestation, baby, toddler, teenager, elderly growth, development, puberty</p>	<p>Animals including humans function, circulatory system, heart, pulse rate, valve, blood vessel, vein, artery transport, oxygenated, oxygen, deoxygenated, carbon dioxide, nutrients, lifestyle, drug</p>

<p>ginger, grey, white, long, short, straight, curly), eyes (blue, brown, green, grey), skin (black, brown, white), big/tall, small/short, bigger/smaller, baby, toddler, child, adult, old person, old, young, brother, sister, mother, father, aunt, uncle, grandmother, grandfather, cousin, friend, family, boy, girl, man, woman</p> <p>Expose children to supplementary vocabulary such as: bald, elderly, wrinkles, male, female, freckles</p>						
<p>Living things & their habitats Model and encourage children to use vocabulary such as: plant, tree, bush, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment e.g. beach, forest Expose children to supplementary vocabulary such as: environment</p>	<p>Plants deciduous, evergreen, tree, leaf, flower (blossom), petals, fruit, berry, bulb, seed, roots, stem, trunk, branch, bark, bud, names of trees in local area Names of garden and wild flowering plants in the local area.</p>	<p>Plants growth, germinate, light, temperature reproduce, lifecycle, shade, sun, warm, cool, water, grow, healthy</p>	<p>Plants air, water, transportation, nutrients, soil, reproduction, seed formation, seed Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal (wind dispersal, animal dispersal, water dispersal)</p>	<p>Living things & their habitats vertebrates, invertebrates (+ 1 example of each) environment, habitat, classification, classification key human impact, positive, negative, migrate, hibernate</p>	<p>Living things & their habitats Life cycle, life process, reproduce, reproduction, offspring, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings</p>	<p>Living things & their habitats characteristic, classification, organism, micro-organism, vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering, non-flowering</p>

<p>Everyday materials Model and encourage children to use vocabulary such as: ice, water, frozen, icicle, snow, melt, wet, cold, slippery, smooth, big, bigger, biggest, smaller, smallest, hard, soft, bendy, rigid, wood, plastic, paper, card, metal, strong, weak, hot, apply heat, waterproof, soggy, not waterproof, best, change, change back Expose children to supplementary vocabulary such as: solid, liquid, gas, most suited</p>	<p>Everyday materials object, material, wood, plastic, glass, paper, metal, rock, fabric, elastic, foil, card, cardboard, rubber, wool, clay, hard, soft, rough, smooth, shiny, dull, bendy, stretchy, stiff, floppy, waterproof, absorbent breaks/tears, see-through, not see-through</p>	<p>Everyday materials and their uses brick, fabric, elastic, foil properties, solid, waterproof, absorbent, opaque, transparent, translucent, flexible, bounce, reflective, flexible, rigid, Shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching</p>	<p>Rocks Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, soils, organic matter, sandstone, granite, marble, pumice absorbent, crumble sedimentary, layer, sediment, igneous, magma, lava, gas bubbles (tiny holes/spaces) metamorphic, change, squeeze, pressure</p>	<p>States of matter solid, liquid, gas, state change, melting, freezing, heating, melting point, boiling point, evaporation, condensation, particle, temperature, freezing, heating, water cycle</p>	<p>Properties and changes to materials hardness, transparency, conductivity (electrical, thermal) soluble, solubility, solution, dissolve, filter, evaporate, sieve, reversible, irreversible, non-reversible changes, change of state, burning, rusting, new material</p>	<p>Evolution & Inheritance adaptation, evolution, characteristic, reproduction, genetics, survival vary, suited, adapted, environment, inherited, species, fossils</p>
<p>Light Model and encourage children to use vocabulary such as: Sun, sunny, light, shadow, shady, clouds, torch, see-through, non-see-through, source, light source Expose children to supplementary vocabulary such as: casting a shadow, pale, dark, transparent, opaque Seasonal change Model and encourage children to use vocabulary such as:</p>	<p>Seasonal change seasons, spring, summer, autumn, winter, month, year, day, night, sun, moon, light, dark Weather (sunny, rainy, windy, snowy etc.) Sun, sunrise, sunset, day length.</p>	<p>Living things & their habitats living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed, habitat, woodland, meadow, hedgerow, pond microhabitat e.g. under logs, in bushes,</p>	<p>Light light source, dark, absence of light, mirror, reflect, reflective, reflection, reflect, mirror, sunlight, dangerous shadow, blocked transparent, translucent, opaque shiny, matt, surface,</p>	<p>Sound Vibrate, vibration, travel, wave, volume, pitch, tone, insulation sound, source, pitch (high, low), volume, faint, loud,</p>	<p>Earth & Space Earth, sun, moon, solar system, axis of rotation, day, night, phases of the moon, waxing, waning, star, constellation, Planets, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, rotates, star, orbit</p>	<p>Light refraction, reflection, spectrum, rainbow light rays, straight lines</p>

<p>spring, summer, autumn, winter, seasons, sunny, cloudy, hot, warm, cold, shower, raining, storm, thunder, lightning, hail, sleet, snow, icy, frost, puddles, windy, rainbow, animals, young, plants, flowers</p> <p>Expose children to supplementary vocabulary such as: hibernate, migrate, snowflake</p>						
<p>Forces</p> <p>Model and encourage children to use vocabulary such as: float, sink, up, down, top, bottom, surface, move, roll, drop, fly, turn, spin, fall, fast, slow, faster, slower, fastest, slowest, further, furthest, wind, air, water, blow, bounce</p> <p>Expose children to supplementary vocabulary such as: force, rotate, solid, liquid, gravity</p>			<p>Forces & magnets</p> <p>Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole</p>	<p>Electricity</p> <p>Electricity, electrical appliance/device, component, battery power, main power, circuit, series, cell, battery, positive, negative, wire, crocodile clip, bulb, bulb holder, switch, buzzer, motor, complete circuit, break in circuit, short circuit, conductor, insulator, metal, non-metal, symbol.</p> <p>N.B. Children in Year 4 do not need to use standard symbols for electrical components, as this is taught in Year 6.</p>	<p>Forces</p> <p>Force, air resistance, water resistance, friction, gravity, Earth, Newtons mechanisms, simple machines, levers, pulleys, gears</p>	<p>Electricity</p> <p>circuit - series, parallel voltage, volts, amps, circuit diagram, circuit symbol</p>