



Whole-School Progression in Scientific Vocabulary

	EYFS	KS1		KS2			
	Playgroup Nursery Reception Early Learning Goals	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	Questions, answers, equipment, gather, measure, record, results, sort, group, test, explore, observe, compare, describe, similar/ities, different/ces, beaker, pipette, syringe	Previous vocab plus observe changes over time, notice patterns, secondary sources, hand lenses, egg timers, identify, classify, data,	Previous vocab plus scientific enquiry changes over time, notice patterns, secondary sources, comparative tests, fairtests, careful, accurate, observations, equipment, gather, measure, record, data, evidence, results, keys, bar charts, table, results, conclusions, predictions, support, thermometers	Previous vocab plus enquiry types, increase, decrease, identify, classify, order, notice patterns, relationships, appearance, present results, data loggers	Previous vocab plus, notice patterns, relationships, independent variable, dependent variable, controlled variable, accuracy, precision, degree of trust, classification keys, scatter graphs, line graphs, causal relationships, support/refute, data loggers	Previous vocab plus opinion/fact, confidently name scientific enquiry types	

Animals including humans	<p>Fish, reptiles, mammals, birds, amphibians (+ examples of each) herbivore, omnivore, carnivore, leg, arm, elbow, head, ear, nose, back, wings, beak body, head, neck, arms, elbows, legs, knees, face, ears, eyes, eyebrows, eyelashes, nose, hair, mouth, teeth, tongue, feet, toes, fingers, nails, ankle, calf, thigh, hips, waist, trunk, chest, shoulders, back, hands, wrist, tail, wing, claw, fin, scales, feathers, fur, beak, senses, hearing, seeing, touching,</p>	<p>Survival, water, air, food, adult, baby, offspring, kitten, calf, puppy, exercise, hygiene offspring, life cycles, grow, change, adults, basic needs, water, food, air survival, exercise, food types (fruit and veg, bread, rice, pasta, milk, dairy, foods high in fat and sugar, meat, fish, eggs, beans), hygiene</p>	<p>Movement, muscles, bones, skull, nutrition, skeletons, nutrition, food types, carbohydrates, protein, vitamins and minerals, fat, sugar, fruits and veg, dietary fibre, water, balanced diet, skeleton, muscles, support, protection, movement, names of bones, vertebrate, invertebrate</p>	<p>Mouth, tongue, teeth, oesophagus, stomach, small intestine, large intestine, herbivore, carnivore, canine, incisor, molar digestive system, nutrition, mouth, teeth, canine, incisor, molar, pre-molar, saliva, tongue, rip, tear, chew, grind, cut, oesophagus (gullet), stomach, small intestine, large intestine, rectum, anus, carnivore, herbivore, omnivore, producer, consumer, predator, prey, food chain</p>	<p>Foetus, embryo, womb, gestation, baby, toddler, teenager, elderly, growth, development</p>	<p>Circulatory, heart, blood vessels, veins, arteries, oxygenated, deoxygenated, valve, exercise, respiration circulatory system, heart, blood, blood vessels, pumps, oxygen, carbon dioxide, lungs, nutrients, water, diet, exercise, drugs, lifestyle, evolution, suited/suitable, adapted, adaptation, offspring, reproduction, variation, inherit, inheritance, fossils, puberty</p>
Plants	<p>Deciduous, evergreen trees, leaves, flowers (blossom), petals, fruit, roots, bulb, seed, trunk, branches, stem names of: wild plants, garden plants, flowering plants, trees, leaf, flower, blossom, petal, fruit, berry, root, bulb, seed, trunk, branch, stem, stalk, vegetable</p>	<p>Seeds, bulbs, water, light, temperature, growth, seeds, bulbs, water, light, growth, healthy, shoot, seedling</p>	<p>Air, light, water, nutrients, soil, reproduction, transportation, dispersal, pollination, flower leaf, flower, blossom, petal, fruit, root, bulb, seed, trunk, branch, stem, water, light, air, nutrients, soil, fertilizer, grow, healthy, transported, life cycle, pollination, seed formation, seed dispersal</p>	<p>Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, snails, slugs, worms, spiders, insects, environment, habitats classification keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates, invertebrates, names of them, human impact, positive, negative (impact)</p>	<p>Mammal, reproduction, insect, amphibian, bird, offspring life cycle, reproduction, sexual, asexual, germination, pollination, seed formation, seed dispersal, pollen, stamen, stigma, plantlets, runners, mammal, amphibian, insect, bird, fish, reptile, eggs, live young</p>	<p>Classification, vertebrates, invertebrates, micro-organisms, amphibians, reptiles, mammals, insects organism, micro-organism, fungus, mushrooms, classification keys, environment, fish, amphibians, reptiles, birds, , mammals, vertebrates, invertebrates, name some of these, arachnid, mollusc, insect, crustacean vocab related to 5 kingdoms</p>

Materials	<p><u>Everyday materials:</u> Wood, plastic, glass, paper, water, metal, rock, hard, soft, bendy, rough, smooth, object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, waterproof, absorbent, tear, rough, smooth, shiny, dull, see through, not see through</p>	<p><u>Everyday materials and their uses:</u> Hard, soft, stretchy, stiff, shiny, dull, rough, smooth, bendy, waterproof, absorbent, opaque, transparent brick, paper, fabrics, squashing, bending, twisting, stretching elastic, foil suitable/unsuitable, use, object, material, property, wood, plastic, glass, metal water, rock, fabrics, hard, soft, stretchy, flexible, waterproof, absorbent, transparent, translucent, opaque, shape, change, twist, squash, bend, stretch, roll, squeeze</p>			<p><u>Properties and changes of materials:</u> Hardness, solubility, transparency, conductivity, magnetic, filter, evaporation, dissolving, mixing y4 plus rigid, hard, soft, stretchy, flexible, waterproof, absorbant, electrical/thermal conductivity, melting, dissolve, solution, insoluble, solute, solvent, particle, mixture, filtering, sieving, residue, reversible/non reversible changes, new material, burning, rusting,</p>	
Light			<p>Light, shadows, mirror, reflective, dark, reflection light, light source, darkness, reflect, reflective, mirror, shadow, block, direction, transparent, opaque, translucent</p>			<p>Refraction, reflection, light, spectrum, rainbow, colour, light, light source, darkness, reflect, reflective, shadow, block, absorb, direction, transparent, opaque, translucent</p>
Electricity				<p>Cells, wires, bulbs, switches, buzzers, battery, circuit, series, conductors, insulators, electricity, appliance, device, mains, plug,</p>		<p>Cells, wires, bulbs, switches, buzzers, battery, circuit, series, conductors, insulators, amps, volts, cell, electricity, appliance, device, electrical circuit, complete circuit,</p>

					electrical circuit, complete circuit, circuit diagram, circuit symbol, components, cell, battery, positive, negative, terminal, connection, short circuit, wire, crocodile clip, bulb, bright/dim, switch, buzzer, motor, faster/slower, conductor, insulator, metal/non metal		circuit diagram, circuit symbol, components, cell, battery, positive, negative, terminal, connection, short circuit, wire, crocodile clip, bright/dim, switch, buzzer, volume, motor, voltage, current, resistance,
		Seasonal Changes	Living Things and Their Habitats	Rocks	States of Matter	Earth and Space	Evolution and Inheritance
		Summer, spring, autumn, winter, sun, day, moon, night, light, dark, season, spring, summer, autumn, winter, weather, hot, warm, cool cold, sunny, cloudy, windy, rainy, snowing, hailing, sleet, frost, fog, mist, icy, rainbow, thunder, lightning, storm, light, dark, day, night	Living, dead, habitat, energy, food chain, predator, prey, woodland, pond, desert living, dead, never been alive, names of local habitats, lond, woodland, meadow, name microhabitats, under log, stony path, under bushes, suited, basic needs, depend, food, food chain, shelter	Fossils, soils, sandstone, granite, marble, pumice, crystals, absorbent rock, stone, pebble, boulder, soil, fossils, grains, crystals, texture, absorb water, let water through, marble, chalk, granite, sandstone, slate, sandy soil, clay soil, chalky soil, peat,	Solid, liquid, gas, evaporation, condensation, particles, temperature, freezing, heating states of matter, solid, liquid, gas, air, oxygen, powder, grainular/grain, crystals, change state, ice/water/steam, water vapour, heating, cooling, temperature, degrees celcius, melt, freeze, solidify, melting point, boil, boiling point, evaporation, condensation, water cycle, precipitation, transpiration	Earth, sun, moon, axis, rotation, day, night, phases of the moon, star, constellation, planets, sun, solar system, moon, celestial body, spherical, rotation, spin, night and day, names of planets, dwarf planet, orbit, geocentric model, heliocentric model, shadow clocks, sundials, astronomical clocks	Fossils, adaptation, evolution, characteristics, reproduction, genetics, DNA, natural selection, survival of the fittest

				Forces and Magnets	Sound	Forces	
				Magnetic, force, contact, attract, repel, friction, poles, push, pull, force, contact force, non-contact force, magnetic force, magnet, strength, bar/ring/button/horseshoe magnets, attract, repel, magnetic material, metal, iron, steel, non-magnetic, poles, north/south pole	Volume, vibration, wave, pitch, tone, speaker, sound, sound source, noise, vibration, travel, solid, liquid, gas, pitch, tune, high, low, volume, loud, quiet, fainter, muffle, strength of vibrations, insulation, instrument, percussion, strings, bass, woodwind, tuned, instrument	Air resistance, water resistance, friction, gravity, newton, fall, earth, gravity, weight, mass, moving surfaces, mechanisms, levers, pulleys, gears, force, transfers	