



## Whole-School Progression in Scientific Vocabulary

|                        | EYFS  | KS1   |   | KS2   |   |  |   |
|------------------------|---|---|---|---|---|--|---|
|                        | Playgroup<br>Nursery<br>Reception<br>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 |  | Fish, reptiles, mammals, birds, amphibians (+ examples of each) herbivore, carnivore, leg, arm, elbow, head, ear, nose, back, wings, beak<br>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, | Survival, water, air, food, adult, baby, offspring, kitten, calf, puppy, exercise, hygiene<br>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 | Movement, muscles, bones, skull, nutrition, skeletons,<br>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                         | Mouth, tongue, teeth, oesophagus, stomach, small intestine, large intestine, herbivore, carnivore, 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 | Foetus, embryo, womb, gestation, baby, toddler, teenager, elderly, growth, development  | Circulatory, heart, blood vessels, veins, arteries, oxygenated, deoxygenated, valve, exercise, respiration<br>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 |
| Plants                   |  | Deciduous, evergreen trees, leaves, flowers (blossom), petals, fruit, roots, bulb, seed, trunk, branches, stem<br>names of: wild plants, garden plants, flowering plants, trees, leaf, flower, blossom, petal, fruit, berry, root, bulb, seed, trunk, branch, stem, stalk, vegetable  | Seeds, bulbs, water, light, temperature, growth, seeds, bulbs, water, light, growth, healthy, shoot, seedling  | Air, light, water, nutrients, soil, reproduction, transportation, dispersal, pollination, flower<br>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 | Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, snails, slugs, worms, spiders, insects, environment, habitats<br>classification keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates, invertebrates, names of them, human impact, positive, negative (impact)                                     | Mammal, reproduction, insect, amphibian, bird, offspring<br>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 | Classification, vertebrates, invertebrates, micro-organisms, amphibians, reptiles, mammals, insects<br>organism, micro-organism, fungus, mushrooms, classification keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates, invertebrates, name some of these, arachnid, mollusc, insect, crustacean<br>vocab related to 5 kingdoms                               |

|             |  |  |   |   |  |   |  |
|-------------|--|--|---|---|--|---|--|
| Materials   |  | <u>Everyday materials:</u><br>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 | <u>Everyday materials and their uses:</u><br>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 |   |  | <u>Properties and changes of materials:</u><br>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, |  |
| Light       |  |  |   | Light, shadows, mirror, reflective, dark, reflection light, light source, darkness, reflect, reflective, mirror, shadow, block, direction, transparent, opaque, translucent |  |   | Refraction, reflection, light, spectrum, rainbow, colour, light, light source, darkness, reflect, reflective, shadow, block, absorb, direction, transparent, opaque, translucent   |
| Electricity |  |  |   |   | Cells, wires, bulbs, switches, buzzers, battery, circuit, series, conductors, insulators, electricity, appliance, device, mains, plug, |   | 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, connect, connection, short circuit, wire, crocodile clip, bulb, bright/dim, switch, buzzer, motor, faster/slower, conductor, insulator, metal/non metal</p>   |   | <p>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,</p> |
|  |  | <b>Seasonal Changes</b>  | <b>Living Things and Their Habitats</b>   | <b>Rocks</b>  | <b>States of Matter</b>   | <b>Earth and Space</b>  | <b>Evolution and Inheritance</b>   |
|  |  | <p>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</p> | <p>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</p> | <p>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,</p> | <p>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</p> | <p>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</p> | <p>Fossils, adaptation, evolution, characteristics, reproduction, genetics, DNA, natural selection, survival of the fittest</p>  |

|  |  |  |  | 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 |  |