



**Progression in language  
within Science  
at Hayfield Lane  
(Tier 2/3 scientific vocabulary)**

**Subject lead: K.Fleming**

# Progression in language – Science

|                           | EYFS   | 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, similarities, differences, beaker, pipette, syringe | 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, fair tests, careful, accurate, observations, equipment, gather, measure, record, data, evidence, results, keys, bar charts, table, results, conclusions, predictions, support, thermometers | scientific enquiry changes over time, notice patterns, secondary sources, comparative tests, fair tests, careful, accurate, observations, equipment, gather, measure, record, data, evidence, results, keys, bar charts, table, results, conclusions, predictions, support, thermometers | enquiry types, increase, decrease, identify, classify, order, notice patterns, relationships, appearance, present results, data loggers | notice patterns, relationships, independent variable, dependent variable, controlled variable, accuracy, precision, degree of trust, classification keys, scatter graphs, line graphs, causal relationships, support/refute | opinion/fact, confidently name scientific enquiry types   |
| Plants                    | Tree, trunk, branch, leaves, flowers, stem, petals, fruit, roots, bulb, seed, grow, buds, water, light, warmth, temperature, soil, compost | Names of: wild plants, garden plants, flowering plants, trees, leaf, flower, blossom, petal, fruit, berry, root, bulb, seed, trunk, branch, stem, bark, stalk, vegetable     | seeds, bulbs, water, light, growth, healthy, shoot, seedling,  | leaf, flower, blossom, petal, fruit, root, bulb, seed, trunk, branch, stem, water, light, air, nutrients, soil, fertiliser, grow, healthy, transported, life cycle, pollination, seed formation, seed dispersal  |   |   |   |
| Evolution and inheritance |  |  |  |  |   |   | Characteristics, inheritance, adaptation, evolution, natural selection, fossil, adaptive traits, inherited traits, extinction |

# Progression in language – Science

|                                  | EYFS  | Year 1  | Year 2   | Year 3  | Year 4   | Year 5  | Year 6  |
|----------------------------------|---|---|--|---|--|---|---|
| Living things and their habitats | Habitat, animal, woodland, desert, ocean, jungle, Arctic, adapted, hibernate, migrate, predator, prey, nocturnal  |   | Living, dead, never been alive, names of local habitats, lond, woodland, meadow, name micro habitats, under log, stony path, under bushes, suited, basic needs, depend, food, food chain, shelter                          |   | Classification keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates, invertebrates, names of them, human impact, positive, negative (impact).  | 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 | Organism, micro-organism, fungus, mushrooms, classification keys, environment, fish, amphibians, reptiles, birds, ,mammals, vertebrates, invertebrates, name some of these, arachnid, mollusc, insect, crustacean   |
| Animals including humans         | Head, eyes, nose, mouth, ears, hands, fingers, feet, knee, toes, arm, leg, elbow, back, animal, herbivore, carnivore, omnivore, human, animal, fish, birds, adult, baby, lifecycle. | 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, smelling, tasting, smooth, bright, dim, loud, quiet, high, low, herbivore, | 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 | Nutrition, food types, carbohydrates, protein, vitamins and minerals, fat, sugar, fruits and veg, dietary fibre, water, balanced diet, muscles, support, protection, movement, names of bones, vertebrate, invertebrate | Digestive system, nutrition, mouth, teeth, canine, incisor, molar, premolar, 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 |   | 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 |
| Seasonal changes                 | Summer, Spring, Autumn, Winter, season, sun, day, dark, light, night, moon, rain, wind, snow, ice, frost, sleet, hail, warm, hot, day light, day length                             |   |  |   |  |   |   |

## Progression in language – Science

|           | EYFS  | Year 1  | Year 2   | Year 3   | Year 4  | Year 5   | Year 6 |
|-----------|---|---|--|--|---|--|--------|
| Materials | Material, wood, plastic, glass, paper, shiny, smooth, soft, rough, bumpy, metal, rock, hard, fabric | 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 | 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 |  | 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 | 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, |        |
| Rocks     |   |   |  | 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, |   |  |        |

## Progression in language – Science

|        | EYFS | Year 1 | Year 2 | Year 3   | Year 4 | Year 5  | Year 6   |
|--------|------|--------|--------|--|--------|---|--|
| Light  |      |        |        | Light, light source, darkness, reflect, reflective, mirror, shadow, block, direction, transparent, opaque, translucent   |        |   | Light, light source, darkness, reflect, reflective, shadow, block, absorb, direction, transparent, opaque, translucent |
| Forces |      |        |        | 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 |        | Fall, Earth, gravity, weight, mass, air resistance, water resistance, friction, moving surfaces, mechanisms, levers, pulleys, gears, force, transfers |  |

## Progression in language – Science

|             | EYFS                       | Year 1 | Year 2 | Year 3 | Year 4  | Year 5 | Year 6  |
|-------------|----------------------------|--------|--------|--------|---|--------|---|
| Sound       | Loud, quiet, volume, sound |        |        |        | 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  |        |   |
| Electricity |                            |        |        |        | Electricity, appliance, device, mains, plug, 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 |        | Electricity, appliance, device, 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, volume, motor, conductor, insulator, voltage, current, resistance, |

## Progression in language – Science

|                 | EYFS                                     | Year 1 | Year 2 | Year 3 | Year 4 | Year 5  | Year 6 |
|-----------------|--|--------|--------|--------|--------|---|--------|
| Earth and space | Earth, Moon, Planet,<br>Space, Sun, star |        |        |        |        | Earth, planets, sun,<br>solar syatem, moon,<br>celestial body,<br>spherical, rotation,<br>spin, night and day,<br>names of planets,<br>dwarf planet, orbit,<br>geocentric model,<br>heliocentric model,<br>shadow clocks, suni-<br>dals, astronomical |        |