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| **Progression of Scientific Vocabulary (Taken from STEM, PLAN and ASE sources)** |

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| **EYFS** | **Year 1 / Year 2** | **Year 3 / Year 4** | **Year 5 / Year 6** |
| **Working Scientifically** | | | |
| same, different, similar, change, guess, ask, answer, name, watch/observe, notice, explore, look for, answer, question | **As for EYFS+**  question, find out, observe, describe, predict, test, compare, sort, group, test, explore, similarities, differences,  measure, length, height, weight, time, temperature  record, results, table, chart, pictograph, block graph, bar chart, venn diagram, equipment, ruler, meter ruler, pipette, beaker, syringe  Children will becoming more familiar with types of enquiry: **pattern seeking, comparative, fair testing, secondary resources, research, identifying, classifying and grouping, observing over time** | **As for KS1 +**  identify, classify, accurate, inaccurate, prediction,  mass/weight, time, temperature, tape measure, thermometer, data logger,bar chart, magnifying glass, secondary sources, links, patterns, present, evidence, keys, increase, decrease  Children will starting to use vocabulary when talking about and recording their work of different types of enquiry: **pattern seeking, comparative, fair testing, secondary resources, research, identifying, classifying and grouping, observing over time** | **As for LKS2+**  line graph, scatter graph, reliable, unreliable, variables, valid, explain, independent variable, dependent variable, controlled variable  Children are able to accurately name and discuss different types of enquiry: **pattern seeking, comparative, fair testing, secondary resources, research, identifying, classifying and grouping, observing over** |

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| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Animals including Humans** | | | | | | |
| **Names of common pets and farm animals**  Cat, dog, guinea pig, cow, sheep, lamb, goat, pig, horse etc.  **Basic body parts:**  head, face, ears, hair, eyes, nose, mouth, teeth, body, arms, hands, fingers, legs, feet, toes, knees, shoulders  **Hair and eye colours** – blonde,  **Growth and change**  Comparatives – taller, shorter, bigger, smaller  Baby, child, teenager, adult, elderly, grow  Healthy, exercise, fruit, vegetable | Fish, amphibian, reptile, bird, mammal, herbivore, carnivore, omnivore  **Common names of Fish, amphibians, reptiles, birds, mammals including pets and those found in the local environment e.g.**  robin, blackbird, squirrel, fox etc.  **Common structure of animals including humans including :**  cheek, chin, neck, thigh, shin, ankles, elbows, paws, fins, wings, tail, skin, scales, fur, feathers  claw, fin, beak, hoof  **Senses** – touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear  and tongue | **As for Year 1+**  offspring, reproduction, survival, shelter, air, growth, child, young/old stages (examples - chick/hen),  heartbeat, breathing, hygiene, germs, disease, food types  (examples – meat, fish, vegetables, bread, rice, pasta) | **As for Year 2+**  nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, protection, movement,  feeding, balanced, diet, skeleton, skull, ribs, spine (backbone), joints, sockets, support, muscles,  bones,  vertebrate  invertebrates, shed, replace | **As for Year 3+**  digestion, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus,  Teeth - incisors, cut, slice, canines, grip, pierce, premolars, molars, crush, grind, dental    Food chain, producers, predators, prey, herbivore, carnivore, omnivore. | **As for Year 4+**  gestation, baby, child, teenager, adult, geriatric, puberty, develop, hormones, muscles, testicles, pubic hair, voice , acne, breasts, hips, period, ovulation | **As for Year 5+**  blood, heart, heart rate, pumps, vessels, transported, circulation, circulatory system, oxygen, carbon dioxide, lungs, veins, arteries, cells, pulse rate, drugs, lifestyle |

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| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Materials** | | | | | | |
| material, natural, soft, hard, smooth, rough, shiny, bend, twist, change, push/pushing, pull/puling, twist/twisting, squash/squashing bend/bending, stretch/stretching  Names of some common materials – wood, plastic, glass, paper, rock metal, water  Names of common objects made from these materials e.g. door, building block, window, pencil sharpener, teddy etc | **As for EYFS+**  object, properties,  card, rubber, fur, brick, elastic, foil, fleece, cotton, wool, polyester, cotton wool, fabric, natural, man made  rough, smooth, stretchy, stiff, shiny, dull, rough, smooth, flexible, waterproof, absorbent, non absorbent, magnetic, non magnetic, see through, non see through  breaks/ tears | **As for Year 1+**  Identify, compare  reflective, non reflective, opaque,  transparent, translucent, strong/weak  flexible, rigid, | **ROCKS**  rocks, granite, limestone, stone, pebble, boulder, grain, crystals, layers, marble, chalk, slate, , clay, sandstone, fossil, soil, sandy, peat, decay, compost, texture, | **As for Year 2/ 3+**  solids, liquids, gases, change state, melt, freeze, heated, cooled, temperature, degrees, solidify, celsius, ice, water, boiling point, steam, water vapour,  water cycle, evaporation, condensation, rate, precipitation, rain, rain fall, snow, sleet., molten | **As for Year 4+**  conduct, insulate, electrical, insulator, thermal, magnetic.  solids, liquids, gases, mixture, dissolve, solution, soluble, insoluble, substance, separated, filtering, sieving, evaporating, reversible, irreversible, state, burning, oxygen, acid, bicarbonate of soda, carbon di oxide, burning, rusting |  |

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| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Living Things and Habitats** | | | | | | |
| insects, minibeasts, egg, butterfly, caterpillar, larva, chrysalis, pupa, cocoon, snails, slugs, worms, spiders, habitat ,alive, dead, animal,  food, water, light, dark, dry, damp, wet, hot, cold, mud, grass, land, sea, nest |  | **As for EYFS+**  living, dead, non-living,  habitat, micro habitat, suited,  food chain,  field, hedgerow, pond, woodland, seashore, ocean, rainforest, arctic, desert, air, food, water, shelter, heat, warmth, sun |  | **As for Year 2+**  classify, classification, key, vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, flowering plants, non-flowering plants, ferns, mosses, fungi, environment, adaption, human impact, positive, negative, ecological, ecosystem, nature reserves, parks, pollution, litter, deforestation, burrow, water, shelter, heat, warmth, sun, camouflage, migrate, hibernate | **As for Year 4+**  life cycle, reproduction, asexual, sexual, sperm, egg, fertilises, animal, babies, young, grow, adult, larva, chrysalis, pupa, metamorphosis, head, abdomen, thorax, wings, fur, feathers, scales, plants, seeds, stem, root cuttings, tubers, bulbs, pollen, leaves, flowers, blossom, petals, fruit, roots, bulb, seed, plantlets, trunk, branches, stem, stigma, style, anther, ovary, ovule, seed formation, seed dispersal | **As for Year 5+**  micro-organisms, kingdom, species, fungus, arachnid |

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| **Plants** | | | | | | |
| Grass, tree, plant, fruit, vegetable, grow, seed, flower, petal, root, leaves, blossom, evergreen | Wild plant, garden plant, leaves, flowers, blossom, petals, fruit, roots, bulb, seed, trunk, branches, stem, bark, stalk, bud, grow,  deciduous, evergreen,  **Names of plants in their local environment for example**  Grass, Clover, Daisy, Buttercup, Dandelion, Oak, Holly, Daffodil, Tulip etc. and plants they grow to eat such as lettuce, tomatoes, cucumber, radish, herb etc. | **As for year 1 +** light, shade, sun, warm, cool, water, grow, healthy, germinate, suitable temperature, soil, nutrients | **As for year 1, 2 +**  stigma, anther, transport, shoot, seedling, compost, decay, die, moisture, ovary ovule  Pollen, pollination, seed formation, dispersal,  wind dispersal,  animal dispersal, water dispersal, reproduce, xylem, breath, fertiliser |  |  |  |

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| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Sound** | | | | | | |
| hear, ears, loud, quiet, soft, noise, sound, instrument |  |  |  | sound, sources, vibrate, vibration, vibrating, travel, medium (solid, liquid, gas), ear, eardrum, instruments, pitch, tune, high, low, volume, pattern, loudness, loud, soft, quiet, insulation, sound proof, distance, fainter |  |  |

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| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Evolution and Inheritance** | | | | | | |
| same, different, similar, change, parents, family |  |  |  |  |  | fossils**,** evolution, evolve, inherit, inheritance, offspring, vary, variation, species, adapted, environment, climate, habitat, suited, sexual reproduction, characteristics |

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| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Forces** | | | | | | |
| heavy, light, float, sink, water, up, down, push, pull, twist |  |  | force, contact, non-contact  move, surface, material, iron, steel, metal,  magnet, magnetic, magnetic field, bar, horseshoe magnet, button magnet, ring magnet, strength, strong, weak, metal, coated,  Attract, repel, poles, north, south, direction |  | **As for Year 3+**  gravity, falling, friction, air resistance, water resistance, newton, force metre, drag, levers, pulleys, gears, mechanisms, Galileo |  |
| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Seasonal Change** | | | | | | |
| autumn, spring, summer, winter, weather, snow,  sun, cloud, wind, rain, hail, thunder, lightning  grow, change, | **As for EYFS +**  days, months year,  sunset, sunrise, day length, frost, sleet, light, dark,  months of year,  evergreen, deciduous |  |  |  |  |  |

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| **EYFS** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Electricity** | | | | | | |
|  |  |  |  | electricity, electrical appliances, device, plug, mains, battery, television, computer, tablet, mobile phone, light, lamp, cooker, microwave, toaster, radio.  component, bulb, buzzer, battery, positive, negative, cell, wire, motor, switch, open, closes, circuit, series, complete loop, connect/connections, crocodile clips, symbol, bright, brightness, current  electrical insulator, plastic, fabric, electrical conductor, metals, water |  | **As for Year 4+**  volume, volts, voltage, symbols, resistance, complete circuit, short circuit, circuit diagram, parallel  **Note:**Children do not need to understand what voltage is but will use volts and voltage to describe different batteries. The words cells and batteries are now used interchangeably |

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| **Light** | | | | | | |
|  |  |  | light sources, Sun, dangerous, lamp, flame, torch, light bulb, see, eyes, light, dark, absence,  day, night, light, dark, dim, sunrise, sunset, dusk, reflect, shiny, matt, reflection, reflected, mirror, shadows, size, shape, pattern, harmful, dangerous, damaging, visible,  *transparent, translucent,opaque* (*builds on year 2 materials*) |  |  | **As for Year 3+**  light rays, straight lines, periscope  (possibly extend to include rainbows, colour, colour filters, water, refraction) |

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| **Earth and Space** | | | | | | | |
|  |  |  |  |  | dim, sunrise, sunset, dusk, Earth, moon, moons, reflect, sun, star, spherical, planet, rotation, Earth’s axis, spin, solar system, orbit, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune ( Pluto as a dwarf planet), shadow clock, sundials, astronomical clock | |  |