**Science – Vocabulary Progression Map**

Below are the vocabulary lists for Science. These give an indication of the words that we want children to become familiar with during each key stage. They are not intended as a test list but show the kind of language staff will use and explain in lessons to broaden pupils' Science vocabulary and understanding.

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| **Subject** |  |  |  |  |  |
| **Science** | **EYFS** | **KS1** | **LKS2** | **UKS2** |  |
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|  |  |  |  |
|  |  |  |  |  |  |
| **Working** |  |  | oral and written explanations, conclusion, predictions, |  |  |
| **Scientifically** | question, answer, observe, observing, equipment, identify, sort, group, compare, | | plan, variables, measurements, accuracy, precision, |  |
|  | criteria, classify, changes, data, contrast, evidence, |  |
|  | differences, similarities, describe, measurements, test, results, secondary sources | | improve, secondary sources, guides, keys, construct, | repeat readings, predictions, further comparative and |  |
|  | record – diagram, chart | | interpret research – relevant question equipment – | fair test, identify, classify and describe, patterns, |  |
|  | thermometer, data – gather, standard units, record, |  |
|  |  |  | systematic, quantitative measurements report data – |  |
|  |  |  | classify, present record – drawings, labelled |  |
|  |  |  | diagrams, keys, bar charts, tables | 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 |  |
| **Animals** | Human, animal, fish, birds, head, face, hair, | Sense, eye, ear, nose, mouth, hand, | Herbivore, carnivore, omnivore, feed, feeding, | Babyhood, childhood, adolescence, adulthood |  |
| **including** |  |
| leg, elbow, back, toes, hands, fingers | foot, feet, senses, arm, leg, head, | growth, activitry, food groups, vegetables, meat, | womb, foetus, embryo, gestation, baby, toddler, |  |
| **Humans** |  |
|  |  | neck, knee, wing, beak, see, hear, | fish, cereals, sugars, fats, fruits, starches, tooth, | teenager, elderly growth, development, puberty |  |
|  |  | smell, touch, feel, alive, living, not | teeth, incisor, molar, canine, diet, heatlhy, | function, circulatory system, heart, valve, blood vessel, |  |
|  |  | alive, human, animal, tall, tallest, taller | unhealthy, root, decay, food, balanced diet. | vein, artery transport, oxygenated, deoxygenated |  |
|  |  | like, similar, to, different, same, body, | Skeleton, bone, bones, ribs, spine, skull, | lifestyle, drug |  |
|  |  | bodies, change, sort, shorter, shortest, | vertebrate, contract relax, contraction, joint, move, |  |  |
|  |  | grow, move adult, young | muscles, muscle |  |  |
| **Plants** | Tree, trunk, leaves, flowers, petals, fruit, roots, | Plant, plants, branch, root, stem, | Plants, light, warmth, water, leaves, roots, stem. | Plant growth, fertiliser,nutrients, consumer, producer, |  |
|  |  |
|  | bulb | trunk, flower, leaf, leaves, seeds, | grow, growth, height, germinate | predator, prey, food chain, key, suited, plant food, |  |
|  |  | weeds, grow, growing, living, alive, |  | produces, identify, habitats, life processe |  |
|  |  | not living, not alive, dead, healthy |  | Reproduce, reproduction, stamen, stigma, sepal, petal, |  |
|  |  |  |  | ovary, pollen, style, germinate, germination, fertilise, |  |
|  |  |  |  | fertilisation, pollinate, pollination, disperse, dispersal, |  |
| **Living things** | Garden, forest, wood, water | Reproduce, produce young, produce | Habitat, nutrition, environment, keys, condition, | Plant Growth, fertiliser, nutrients, consumer, producer, |  |
| **and their** |  |
|  | new plants, animals, plants, shoot, | consumer, producer, organism, predator, prey, | predator, prey, food chain, Key, suited, plant food, |  |
| **habitats** |  |  |
|  |  | within, under, next to, fruit, earth, | food chain, similar, different | produces, identify, habitats, life processes |  |
|  |  | soil, seeds |  | Micro-organism, microbe, germ, virus, decay, mould, |  |
|  |  |  |  | feed, grow, reproduce, bacteria |  |
| **Evolution and** |  |  |  | adaptation, evolution, characteristic, reproduction, |  |
| **inheritance** |  |  |  |  |
|  |  |  | genetics, survival |  |
|  |  |  |  |  |
|  |  |  |  |  |  |
| **Seasonal** | Summer, Spring, Autumn, | Warm, warmth, cold, temperature, |  |  |  |
| **changes** |  |  |  |
|  | thermometer, degrees, Celsius, |  |  |  |
|  |  |  |  |  |
|  |  | conductor, insulator, thermal, thermal |  |  |  |
|  |  | conductor, thermal insulator, conduct, |  |  |  |
|  |  | insulate, measure, room temperature |  |  |  |
| **Forces** |  | force, contact, surface, magnetic, | Force, movement, direction, distance, further, | Friction, air resistance, water resistance, force |  |
|  |  |  |
|  |  | attract, repel, poles | furthest, fast, faster, fastest, slow, slower, | meter, newton, surface area, forces, resists, |  |
|  |  |  | slowest, higher, highest, speed up, slow down, | Magnet, spring, metal, iron , copper, aluminium, steel, |  |
|  |  |  | change direction, change shape, twist, squeeze, | brass, attract, repel, magnetic, non-magnetic, |  |
|  |  |  | stretch, pull, twist | attraction, repulsion, force, elastic, pull towards, push |  |
|  |  |  |  | away from, stretch, squash, compress |  |



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| **Light** |  | Bright, ;light, dark, black, night, day, | Light, dark, shadow, transparent, opaque, | Light, beam, reflect, reflection, opaque, mirror, light |  |
|  |  |  |
|  |  | reflective strip,reflect, torch, Sun, | direction, light travels, translucent, shortest, | travelling, source, reflected, travel, block, shiny surface |  |
|  |  | candle, lamp, darker, darkest, brighter, | longest, highest, object, material, light source, |  |  |
|  |  | brightest, brightness, shine | Sun, night, day |  |  |
|  |  |  |  |  |  |
| **Sound** | Loud, quiet, volume, sound | Sound, sounds, high, low, loud, quiet, | vibration, wave, volume, pitch, tone, insulation | Changing sounds, sounds, loudness, vibrate muffle, |  |
|  |  |
|  |  | shake, rattle, blow, pluck, tap, scrape, |  | tuning, quiet, soft, noise, sound, source, loud, high, |  |
|  |  | ring, silence, direction, louder, loudest, |  | low, vibrating, soundproof |  |
|  |  | quieter, quietest, noise, soft, further |  |  |  |
|  |  | away, nearer, ear, faint, fainter, volume |  |  |  |
| **Earth and** | Earth, Moon, planet, space, Sun, star |  | Rock, slate, granite, sandstone, chalk, soil,clay, | Earth, sun, moon, sphere, revolve, orbit, spin, rotate, |  |
| **space** |  |  |
|  |  | sand limestone, quartz, marble, stone, pebble, | axis, sunrise, sunset, north, south, east, west, light |  |
|  |  |  |  |
|  |  |  | texture, absorbent, characteristic, surface | source, shadow |  |
|  |  |  |  |  |  |
| **Electricity** |  | Electricity, bulb, bulb holder, buzzer, | Electricity, electrical, circuit, battery, bulb, | Changing circuits, circuit, complete circuit, conductor, |  |
|  |  |  |
|  |  | battery, battery holder, switch, circuit, | crocodile clip, buzzer, motor, conduct, conductor, | insulator, symbol, circuit diagram, electricity, |  |
|  |  | connection, wire, mains, crocodile clip, | insulate, insulator, power, bright, brightness, | component, voltage |  |
|  |  | break, dim, bright, light, plug, socket, | switch, break, dim, batteries, |  |  |
|  |  | brighter |  |  |  |
| **Materials** | Metal, plastic, wood, paper, glass, clay, | Materials, natural, man-made, | Strong, weak, flexible, transparent, soft, hard, | Changing state, evaporate, evaporation, condense, |  |
|  |  |
|  | rock, fabric, sand, hard, soft, rough, | manufactured, object, change, bake, | waterproof, absorbent, shiny, dull, rigid, rough, | condensation, state, solid, liquid, gas, melt, freeze, |  |
|  | smooth, shiny, dull, bendy, waterproof, | bend, twist, stretch, squash, heat, cool, | smooth, opaque, compare, comparison, | conditions, melting, solidify |  |
|  | strong, weak, group, object, sort, stretchy, | freeze, melt, boil, new material | describe, description material, characteristics, | Dissolve, dissolving, undissolved, solution, mixture, |  |
|  | magnetic, not magnetic, lets light through |  | properties, stretchy. | evaporate, condense, pure, separate, clear, cloudy, |  |
|  |  |  | Solid, liquid, melt, freeze, solidify, dissolve, | filter, |  |
|  |  |  | solution, filter, undissolved, separate, sieve, mix | Gas gases, air, oxygen, carbon dioxide, natural gas, |  |
|  |  |  |  | carbon monoxide, properties |  |