



Progression of Scientific Vocabulary

*Any words in *italics* have been introduced in previous year groups

Biology Chemistry Physics

EYFS					
Working scientifically:					
Science, question, answer, experiment, fair, find out, explain, reason, why, change					
<u>Animals including humans</u>	<u>Plants</u>	<u>Materials</u>	<u>Seasonal Changes</u>	<u>Earth & Space</u>	<u>Sound & Light</u>
Nursery: head, eyes, nose, mouth, ears, hands, fingers, feet, toes, arms, leg, animal	Nursery: tree, leaf, flower, stem, seed	Nursery: material, wood, glass, paper, hard, soft	Nursery: Season, Summer, Spring, Autumn, Winter, day, night, dark, light, Moon, Sun	Nursery: Earth, Moon, Sun, star	Nursery: loud, quiet
Reception: herbivore, carnivore, omnivore, human, animal, fish, birds, <i>head, ear, eye, mouth, nose, face, neck, leg, knee, arm, elbow, back, toes, feet, hands, fingers</i>	Reception: <i>tree</i> , trunk, branch, leaves, <i>flowers</i> , <i>stem</i> , petals, fruit, roots, bulb, <i>seed, plant</i>	Reception: material, wood, plastic, glass, paper, shiny, metal, rock, hard, soft, fabric, smooth, rough	Reception: Season, Summer, Spring, Autumn, Winter, day, night, dark, light, Moon, Sun	Reception: Earth, Moon, planet, space, sun, star	Reception: loud, quiet, volume, sound, bright, dull

Vocabulary Progression Year 1 to Year 6:

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working scientifically: Question, answer, observe, observing, equipment, identify, classify, sort, diagram, chart, map, data, compare, contrast, describe, biology, chemistry, physics, group, record		Working scientifically: Research, relevant, questions, scientific enquiry, comparative and fair test, systematic, careful observation, accurate, measurements, data, gather, record, classify, present, record, drawings, labelled diagrams, keys, bar charts, tables, oral and written explanations, conclusion, predictions, differences, similarities, changes, evidence, improve, secondary sources, guides, keys, construct, interpret, thermometer, data logger		Working scientifically: plan, variables, measurements, accuracy, precision, repeat readings, record data, scientific diagrams, labels, classification keys, tables, scatter graphs, bar graphs, line graphs, predictions, further comparative and fair tests, report and present conclusions, causal relationships, explanations, degree of trust, oral and written display and presentation, evidence, support ideas, refute arguments, identify, classify, describe, patterns, systematic, quantitative, measurements	
<u>Animals including humans</u> <i>Fish</i> , amphibians, reptiles, <i>birds</i> , mammals, pets, tongue, <i>nose</i> , <i>eyes</i> , <i>ears</i> , skin, taste, smell, sight, touch, hear, head, <i>legs</i> , <i>neck</i> , <i>knees</i> , hair, <i>arms</i> , <i>face</i> , <i>mouth</i> , <i>elbows</i> , teeth, <i>carnivore</i> , <i>omnivore</i> , <i>herbivore</i> , meat, plants, names of animals	<u>Animals including humans</u> Offspring, grow, adults, survival, water, food, air, exercise, hygiene, nutrition, reproduce, egg, chick, chicken, caterpillar, pupa, butterfly, spawn, tadpole, frog, lamb, sheep, baby, toddler, child, teenager, adult	<u>Animals including humans</u> Nutrition, nutrients, carbohydrates, protein, fats, fibre, water, vitamins, minerals, skeleton, bones, joints, endoskeleton, exoskeleton, hydrostatic, skeleton, vertebrate, invertebrate, contract, relax, muscles, ball joint, socket joint, hinge joint, gliding joint	<u>Animals including humans</u> Human digestive system, digestion, mouth, tongue, mixes, moistens, saliva, oesophagus, transports, stomach, acid, enzymes, small intestines, colon, absorbs, compacts, teeth, incisors, cutting, slicing, canines, ripping, tearing, molars, chewing, grinding, floss, brush, food chain, sun, producers, prey, predators, <i>carnivore</i> , <i>herbivore</i> , <i>omnivore</i>	<u>Animals including humans</u> Puberty, life cycle, gestation, growth, reproduce, foetus, <i>baby</i> , fertilisation, <i>toddler</i> , <i>child</i> , <i>teenager</i> , <i>adult</i> , old age, life expectancy, adolescence, adulthood, early adulthood, middle adulthood, late adulthood, childhood	<u>Animals including humans</u> Internal organs, heart, lungs, liver, kidney, brain, skeletal, <i>skeleton</i> , muscle, muscular, digest, digestion, digestive, circulatory system, heart, blood vessels, blood, impact, diet, exercise, drugs, lifestyle, nutrients, water, damage, drugs, alcohol, substances
<u>Plants</u> Common, wild plants, garden plants, deciduous, evergreen, <i>plant</i> , <i>leaf</i> , <i>root</i> , <i>leaves</i> , bud, <i>flowers</i> , blossom, <i>petals</i> , <i>stem</i> , <i>tree</i> , <i>trunk</i> , branches, <i>fruit</i> , vegetables, <i>bulb</i> , <i>seed</i>	<u>Plants</u> <i>common</i> , <i>wild plants</i> , <i>garden plants</i> , <i>deciduous</i> , <i>evergreen</i> , <i>leaf</i> , <i>root</i> , <i>leaves</i> , <i>bud</i> , <i>flowers</i> , <i>blossom</i> , <i>petals</i> , <i>stem</i> , <i>tree</i> , <i>trunk</i> , <i>branches</i> , <i>fruit</i> ,	<u>Plants</u> <i>common</i> , <i>wild plants</i> , <i>garden plants</i> , <i>deciduous</i> , <i>evergreen</i> , <i>leaf</i> , <i>root</i> , <i>leaves</i> , <i>bud</i> , <i>flowers</i> , <i>blossom</i> , <i>petals</i> , <i>root</i> , <i>stem</i> , <i>trunk</i> , <i>branches</i> , <i>leaf</i> , <i>root</i> , <i>fruit</i> , <i>vegetables</i> , <i>bulb</i> , <i>seed</i> , <i>water</i> , <i>light</i> , <i>suitable</i> ,	<u>Living things and habitats</u> Environment, flowering, non-flowering, <i>plants</i> , <i>animals</i> , <i>vertebrate</i> , <i>danger</i> , <i>fish</i> , <i>amphibians</i> , <i>reptiles</i> , <i>birds</i> , <i>mammals</i> , <i>invertebrate</i> , snails, slugs, worms, spiders, insects,	<u>Living things and habitats</u> <i>Life cycles</i> , <i>mammal</i> , <i>amphibian</i> , <i>insect</i> , <i>bird</i> , <i>life processes</i> , <i>plants</i> , <i>animals</i> , vegetable garden, flower border, animal naturalists, animal behaviourists, reproduction, sexual,	<u>Living things and habitats</u> Classify, compare, Linnaean, Carl Linnaeus, classification, domain, kingdom, phylum, class, order, family, genus, species, characteristics, <i>vertebrates</i> ,

	<i>vegetables, bulb, seed, water, light, suitable, temperature, germination, reproduction, grow, healthy</i>	<i>temperature, germination, reproduction, grow, healthy, structure, flowering plants, nutrition, support, air, light, water, soil, grow, varying needs, fertiliser, flowers, pollination, seed formation, seed dispersal, life cycle</i>	grasses, mosses, ferns, human impact, positive, negative, nature reserve, ecologically planned parks, garden ponds, population, development, litter, deforestation	asexual, <i>rainforest, oceans, deserts</i> , prehistoric, similarities, differences	<i>invertebrates, microorganisms, organism, flowering, non-flowering</i>
<u>Everyday materials</u> Material, object, wood, plastic, glass, metal, water, rock, brick, paper, fabrics, elastic, foil, properties, hard, soft, stretchy, stiff, shiny, dull, rough, smooth, bendy, not bendy, waterproof, not waterproof, absorbent, non-absorbent	<u>Living things and habitats</u> Living, dead, never alive, habitats, micro-habitats, food, food chain, sun, grass, cow, human, alive, healthy, logs, leaf litter, stony path, under bushes, shelter, seashore, woodland, ocean, rainforest, conditions, hot, warm, cold, dry, damp, wet, bright, shade, dark	<u>Rocks</u> Rock, appearance, physical, <i>properties, hard, soft, shiny, dull, rough, smooth, absorbent, non-absorbent</i> , fossils, sedimentary, soils, organic matter, buildings, gravestones, grains, crystals	<u>States of matter</u> Solid, solidify, iron, ice, melt, freeze, liquid, evaporate, condense, gas, container, changing state, heated, heat, cooled, cool, degrees Celsius, thermometer, water cycle, evaporation, condensation, temperature, melting, warm, cool, water, water vapour	<u>Properties and changes of materials</u> Properties, hardness, solubility, transparency, electrical conductor, thermal conductor, magnetic, dissolve, solution, separate, separating, solids, liquids, gases, evaporating, reversible changes, dissolving, mixing, evaporation, filtering, sieving, melting, irreversible, new material, burning, rusting, magnetism, electricity, chemists, quantitate, measurements, conductivity, insulation, chemical	<u>Evolution and Inheritance</u> Evolution, inheritance, inherited traits, adapted traits, natural selection, inheritance, Charles Darwin, DNA, genes, variation, parent, offspring, <i>fossil, environment, habitat, fossilisation, plants, animals, living things</i>
<u>Seasonal changes</u> Season, month, summer, autumn, winter, spring, day, daytime, sun, day, length, weather, wind, rain, snow, hail, sleet, fog, sun, hot, burn, warm, cold, animals, plants, trees, flowers, leaves, adapting, hibernating, migrating	<u>Everyday materials and their uses</u> <i>Material, object, wood, metal, plastic, glass, brick, rock, paper, cardboard, rubber, squash, bend, twist, stretch, waterproof fabric, macadamisation</i>	<u>Light</u> Light, see, dark, reflect, surface, natural, star, moon, sun, shadow, blocked, solid, artificial, torch, candle, lamp, sunlight, dangerous, protect eyes	<u>Sound</u> Vibrate, vibration, vibrating, air, medium, ear, hear, sound, volume, pitch, faint, fainter, loud, louder, string, percussion, woodwind, brass, insulate	<u>Earth and Space</u> Earth, sun, moon, space, planets, stars, solar system, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, rotate, day, night, Aristotle, Ptolemy, Galileo, Copernicus, Brahe, Alhazen, orbit, axis, spherical, heliocentric, geocentric, hemisphere, <i>season</i> , tilt	<u>Light</u> light, travel, straight, <i>reflect</i> , reflection, light source, object, <i>shadows</i> , mirrors, periscope, rainbow, filters

		<u>Forces and magnets</u> Force, push, pull, open, surface, magnet, magnetic, attract, repel, magnetic poles, North, South	<u>Electricity</u> Appliances, electricity, electrical circuits, cell, wire, bulb, buzzer, danger, electrical safety, sign, insulators, conductors, switch, open, closed	<u>Forces</u> gravity, air resistance, water, resistance, friction, surface, force, effect, move, accelerate, decelerate, stop, change direction, brake, mechanism, pulley, gear, spring, theory of gravitation, Galileo Galelei, Isaac Newton	<u>Electricity</u> voltage, brightness, volume, <i>switches</i> , <i>danger</i> , series circuit, <i>safety</i> , <i>sign</i> , circuit diagram, switch, <i>bulb</i> , <i>buzzer</i> , motor, recognised, <i>symbols</i>
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