

# Progression in Scientific Vocabulary

(from EYFS Framework, Development Matters, NC aims and PLAN Progression in Vocabulary)

The vocabulary included for **Nursery and Reception** are words that children should be exposed to. They should use some correctly in a scientific context.

The vocabulary included from **Year 1 onwards** are the words that children should know and use correctly in a scientific context. They should be able to define the specialist scientific vocabulary included

	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
Biology: Plants	plant, leaf, stem, branch, root, bark, flower, petal, seed, berry, fruit, vegetable, bulb, plant, hole, dig, water, weed, grow, shoot, die, dead, soil, names of plants they grow		blossom, petal, fruit, berry, leaf, stem, flower, bud, root, trunk, branch  Names of trees: field maple, oak, silver birch, holly  Names of plants: tulip, daisy, dandelion, daffodil	light, shade, Sun, warm, cool, water, space, grow, healthy, bulb, germinate, shoot, seedling	seed formation, pollination, pollen, photosynthesis, seed dispersal, function, reproduce, nutrients, minerals, absorb			

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	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<b>Biology: Animals, including humans</b>	egg, chick, bird, caterpillar, cocoon, butterfly, grow, change, baby, toddler, child, adult, old person, smell, taste, touch, feel, hear, see, blind, deaf	names of animals, live, on land, in water, jungle, desert, sea, hot, cold, wet, dry, snow, ice, environment, ocean, camouflage  hair (e.g. black, brown, dark, light, blonde, ginger, grey, white, long, short, straight, curly), eyes (e.g. blue, brown, green, grey), skin (e.g. black, brown, white), big/tall, small/short, bigger/smaller, baby, toddler, child, adult, old person, old, young, brother, sister, mother, father, aunt, uncle, grandmother, grandfather, cousin, friend, family, boy, girl, man, woman	animal, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves	offspring, reproduction, survive, survival, water, food, air, exercise, heartbeat, breathing, hygiene, germs, disease  names of animals and their babies (e.g. chick/chicken, kitten/cat, caterpillar/butterfly)  food types (e.g. meat, fish, vegetables, bread, rice, pasta, dairy)	nutrition, nutrients, carbohydrates, protein, sugars, vitamins, minerals, fibre, fat, skeleton, bones, skull, ribs, joints, muscles	oesophagus, stomach, small intestine, large intestine, rectum, anus, digestive system, digestion, saliva, canine, incisor, molar, premolar, producer, predator, prey, herbivore, carnivore, omnivore	pregnancy, puberty, adolescent, gestation  Linked SRE vocabulary from Y5 plan: puberty, physical changes, emotion changes, mood, menstruation, periods, tampons, sanitary towels, wet dreams, semen, erection, sweat, breasts, spots, pubic hair, facial hair, underarm hair, sexual feelings	heart, pulse, blood vessels, veins, arteries, lungs, circulatory system, oxygen, carbon dioxide, diet, drugs, lifestyle

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	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<b>Biology: Living things and their habitats</b>	natural, plant, animal, leaves, seeds, conkers, acorns, twigs, bark, shells, feathers, pebbles, stones, same, different, pattern	plant, tree, bush, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment (e.g. beach, forest)		living, never been alive, dead, food chain, suitable, suited, habitat, shelter, water, air, survive, survival, habitat, conditions  names of local habitats (e.g. pond, woodland etc.)  names of micro-habitats (e.g. under logs, in bushes etc.)  names of living things in the habitats and micro-habitats studied		habitat, environment, human impact, positive, negative, classification key, classification, hibernate, migrate	metamorphosis, egg, genetic, asexual, sexual, fertilisation, runners, cuttings, plantlets, live young	vertebrates, fish, amphibians, reptiles, birds, mammals, warm-blooded, cold-blooded, invertebrates, insects, spiders, snails, worms, flowering, non-flowering, mosses, ferns, conifers, organism

	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<b>Biology: Evolution and inheritance</b>								vary, variation, characteristics, adapted, inherited, species, evolve, evolution

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	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<b>Chemistry: Materials</b>	mix, stir, cook, hot, oven, microwave, change, burn, melt, hard, runny, set, freeze, freezer, cold, blended, hard, soft, bendy, stiff, wobbly, wood, plastic, paper, card, fabric	ice, water, frozen, icicle, snow, melt, wet, slippery, smooth, big, bigger, biggest, smaller, smaller, smallest, rigid, metal, strong, weak, hot, waterproof, soggy, not waterproof, best, change, change back	material, rock, plastic, glass, metal, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay stretchy, stiff, light, absorbent, heavy, dull, shiny, rough	Flexible, transparent, opaque, translucent, reflective, non-reflective, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching		solid, liquid, gas, state change, heating, cooling, melting point, boiling point, freezing, evaporation, water cycle, condensation, temperature, water cycle	thermal insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve, reversible/non-reversible change, burning, rusting, new material	

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	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
Chemistry: Rocks					boulder, grain, crystals, layers, hard, soft, texture, absorbs water, fossil, bone, flesh, minerals, marble, chalk, granite, sandstone, slate, types of soil (e.g. peaty, sandy, chalky, clay)			

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	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
Physics: Seasons, Earth and Space	spring, summer, autumn, winter, seasons, sunny, cloudy, hot, warm, cold	Sun, Moon, Earth, star, planet, sky, day, night, space, round, bounce, float  shower, raining, storm, thunder, lightning, hail, sleet, snow, icy, frost, puddles, windy, rainbow, animals, young, plants, flowers, snowflake	temperature, daylight, weather, sunrise, sunset				Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune, spherical, solar system, rotates, star, orbits, planet	

	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
Physics: Light					light, light source, dark, absence of light, surface, shadow, reflect (verb), mirror			light ray, straight lines

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	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<b>Physics: Forces</b>	object, float, sink, water, up, down, top, bottom, push, pull, magnet, spring, squash, bend, twist, stretch, turn, spin, smooth, rough, fast, slow				force, push, pull, twist, contact force, non-contact force, magnetic force, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole		gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears	

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	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<b>Physics: Sound</b>						vibrate, vibration, pitch, volume, vibrate, insulation, source, travel, pitch (high, low), faint		

	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<b>Physics: Electricity</b>						electricity, electrical, appliance, device, mains, circuit, complete, conductor, insulator, positive, negative, connect, connection, non-metal, symbol  component, cell, battery, switch, buzzer, motor, crocodile clip		circuit diagram, circuit symbol, voltage



# Progression in Disciplinary Vocabulary

(from EYFS Framework, Development Matters, NC aims and PLAN Matrices)

	Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
	look closely, observe, watch, touch, feel, smell, listen, same, different, compare, ask questions, record, sort, group	observe, changes, patterns, grouping, sorting, compare, same, different, identify (name), measure, record results, drawing, picture, table, present, ask questions, test, investigate, explore, equipment, resources, magnifying glass, hand lens, pipette, answer questions	observe, changes, patterns, grouping, sorting, compare, same, different, identify (name), measure, record results, drawing, picture, table, present, ask questions, test, investigate, explore, equipment, resources, magnifying glass, hand lens, pipette, answer questions	scientific enquiry, pattern seeking, comparative testing, observing over time, classifying, researching using secondary sources, data, tally chart, pictogram, block chart, Venn diagram, interpret results, ruler, tape measure	practical work, fair testing, relationships, accurate, estimate, data, diagram, chart, bar chart, prediction, similarity, difference, evidence, information, findings, values, conclusion, explanation, reason, evaluate	thermometer, identification key, properties, characteristics, data logger, stopwatch, timer, criteria, improve	variables, independent variable, dependent variable, control variable, evidence, justify, accuracy, precision, bar graphs, force meter, causal relationship	scatter graphs, line graphs, argument (science)