

Foundation Nursery

Working scientifically

look closely, observe, watch, touch, feel, smell, listen, same, different, compare, ask questions, record, sort, group

Plants	Animals including humans	Materials	Light	Forces	Sound
plant, leaf, stem, branch, root, flower, petal, seed, berry, fruit, vegetable, bulb, plant, hole, dig, water, weed, grow, shoot, soil, names of plants they grow	egg, chick, bird, caterpillar, cocoon, chrysalis, butterfly, frog grow, change, die, names of animals and their young, fur, feathers, scales, tail, wings, beak, claws, paws, hooves, swim, walk, run, jump, fly, patterns, spots, stripes, grow, change, baby, toddler, child, adult, old person, smell, taste, touch, feel, hear, see, blind, deaf	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	light, torch, bulb, lamp, spotlight, shiny, bright, brighter, brightest, Sun, shine, glow, mirror	object, float, sink, water, up, down, top, bottom, push, pull, magnet, spring, squash, bend, twist, stretch, turn, spin, smooth, rough, fast, slow	Sound
					Electricity
					battery, plug, socket, electricity, wire, light

Reception

Living things	Animals including humans	Materials	Light	Forces	Sound
plant, tree, bush, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment (e.g. beach, forest)	names of animals, live, on land, in water, jungle, desert, North Pole, South Pole, sea, hot, cold, wet, dry, snow, ice, 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,	ice, water, frozen, icicle, snow, melt, wet, cold, slippery, smooth, big, bigger, biggest, smaller, smaller, smallest, hard, soft, bendy, wood, plastic, paper, card, metal, strong, weak, hot, apply heat, waterproof, soggy, not waterproof, best, change, change back	Sun, sunny, light, shadow, shady, clouds, torch, see-through, not see-through, source	float, sink, up, down, top, bottom, surface, move, roll, drop, fly, turn, spin, fall, fast, slow, faster, slower, fastest, slowest, further, furthest, wind, air, water, blow, bounce	Sound
					Electricity
					sound, noise, listen, hear, music, voices, bird song, traffic, sirens, thunder, high, low, loud, quiet, soft, volume, crackle, thunder, hum, buzz, roar
					electricity, wire, light

	father, aunt, uncle, grandmother, grandfather, cousin, friend, family, boy, girl, man, woman				
--	--	--	--	--	--

Year 1 Scientific vocabulary

observe, changes, patterns, grouping, sorting, compare, same, different, identify (name), ask questions, test, investigate, equipment, resources, spoon, teaspoon, answer questions, results, observing over time

Seasons	Animals – vertebrate	Human body & senses	Naming and describing materials	Properties of materials	Identifying plants and their parts
leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud, weather, seasons, autumn, winter, spring, summer, similar, different, warm, waterproof	leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, tongue, fish, amphibian, reptile, bird, mammal, nocturnal, senses, carnivore, herbivore, omnivore,	head, body, eyes, ears, mouth, teeth, sensitive, sense, sensory, rub, pinch, prod, rough, smooth, bumpy, wrinkled, hard, crunchy, slippery, slimy, fragrance, scent, pong, flowery, fruity, sour, bitter, sharp, strong, gentle, smelly, delicate, sensitive,	materials, dull, light, heavy, harder, lighter, rougher, stretch, stretchy,	elastic, stiff, bend, bendy, not bendy, press, squash, twist, shape, waterproof, absorb, absorbent, soak up,	leaf, stem, flower, bud, root system, tap root, fibrous roots, tree, trunk, branch, twig,

Year 2 Scientific vocabulary

measure, data, record results, drawing, picture, table, tally chart, present, pictogram, block chart, Venn diagram, test, investigate, explore, equipment, interpret results, scientific enquiry, pattern seeking, comparative testing, observing over time, classifying observe, observations, describe, identify, predict, prediction, Carroll diagram, scatter graph, plot, pattern, offspring, adult, food chain, tally chart, pattern, seeds, bulbs, compost, manure, herbs

Local Habitats	Choosing materials	Growing seeds and bulbs	Growing up – animals and humans	Changing materials – Forces	Growing healthy plants
living, dead, never been alive, suitable, basic needs, shelter, survive, + Names of local habitats (e.g. pond, woodland etc.), names of micro-habitats (e.g. under logs, in bushes etc.),,	Material, metal, bendy, squashy, stiff, rigid, absorbent, transparent, opaque, translucent, strength, flexible,	seeds, bulb, grow, soil, bury, germinate, root, shoot, leaves,	essential, shelter, survival, child, toddler, dependent, independent, life cycle, pregnancy, birth, teenager, adult, parent, elderly person healthy diet, dairy, fat, sugar cereals, exercise,	twisting, stretching, push, pull, pushing, pulling, suitable, weight, catapult	seedling, mature plant, wilting, healthy, unhealthy,

			physical activity, pulse, hygiene, hygienic,		
--	--	--	--	--	--

Year 3 Scientific vocabulary

question, investigation, fair test, change, measure, predict, prediction, explain, explanation, observations, draw conclusions survey, pattern, evidence, scientific enquiry, pattern seeking, comparative testing, observing over time, classifying, researching using secondary sources

Rocks, soils and fossils	Lights and Shadows	Forces – friction and magnetism	Movement and nutrition - humans	Flowing plants and plant growth	Slowing plant – life cycle
stone, pebble, texture, crystal, granule, properties, weathering, ammonite, fossil, fossilized remains	shadow, mirror, reflect, opaque, transparent, translucent, ultraviolet, luminous, non-luminous,	Friction, magnet, attracts, magnetic magnetism, non-magnetic, metal, non-metal, north pole, south pole, repel, air resistance, gravity	survive, balanced diet, nutrition, nutrients, carbohydrates, protein, roughage, fiber, sugar, fat, dairy, skeleton, bones, protect, support, move, muscles, joints, vertebrate, vitamins, minerals	trunk, stalk, veins, root hair, nutrients, anchor, support, flowering, leaf, deciduous, evergreen, flower, seedling, seed head, soil type, variation, seasonal change,	pollination, petal, sepal, carpel, stamen, pollen, reproduce, nectar, self-dispersal, explosion stigma, style, ovary, anther, filament

Year 4 Scientific vocabulary

relationships, accurate, thermometer, data logger, stopwatch, timer, estimate, data, diagram, identification key, chart, bar chart, prediction, similarity, difference, evidence, information, findings, criteria, values, characteristics, conclusion, explanation, reason, evaluate, improvescale, calibrate, heat sensitive, sensor, observe, measure, fair test, variable, collect, present, interpret, data, axis, scale, interval, control, evaluate, reliable, repeatable, Venn diagram, Carroll diagram, table, conclusion, evidence, annotate categories, tally chart, pictogram, bar chart, axes, scale, opinion, point of view, argument, viewpoint, debate

Changes of state	Electricity- circuits	Human impact – environment	Digestion & food chains	Sound	Classification of plants and animals
solid, liquid, temperature, degree Celsius, melting, freezing, solidifying, heating, change of state, melting point, freezing point, gas, evaporate, evaporation, water vapour, boil, boiling, boiling point,	mains, plugged in, battery, circuit, short circuit, connect, disconnect, terminal, positive, negative, switch, switch, conductor, insulator, electron, filament	environment, impact, positive, negative, biodiversity, food chain, producer, consumer, , global issue, destruction, deforestation, rainforest, climate, climate change, predator, prey, conservation,	oesophagus, stomach, small intestine, large intestine, rectum, anus, digestive system, digestion, mechanical process, chemical process, absorb, nutrients, water, saliva, chemicals, enzyme, teeth, canine, incisor, premolar, molar, jaw,	sound, vibration, vibrate, solid, gas, volume, strength of vibrations, sound source, fainter, distance, pitch, particles, sound wave	vertebrate, fish, amphibian, reptile, bird, mammal, lungs, gills, cold blooded, warm blooded, thorax, abdomen, segment, antennae, insects, arachnids (spiders), crustaceans,

			dental hygiene, herbivore, omnivore, carnivore		
--	--	--	--	--	--

Year 5 Scientific vocabulary

compare, contrast, group, organise, criteria, change, compare, draw conclusions, explain, explanation, investigation, line graph, measure, model, observations, plan, predict, prediction, presentation, question, record, review, scientific diagram, table, variables, independent variable, dependent variable, control variable, evidence, justify, argument (science), causal relationship, accuracy, precision, scatter graphs, bar graphs, line graphs, force meter

Forces and mechanisms	Properties of materials	Earth and space	Plant and animal life-cycles	Separating mixtures and changing materials	Human growth
balanced forces, bevel gears, clockwork, cogs, force arm, friction, fulcrum, gear ratio, lever, Newton meter, pivot, pulley, rotary motion, unbalanced force, upthrust, water resistance, weight	soluble, insoluble, transparent, opaque, rigidity, flexibility, elastic, elasticity, ductile, electrical conductor/insulator, thermal conductor/insulator, magnetic, non-magnetic, viscosity, viscous, organic, natural, manufactured, man-made, decompose, brittle, fragile, durable, durability, stain resistant, reusable, ovenproof, room temperature, saturated, powder, particle, polymer	Arctic, Antarctic, British Summer Time, Earth, Greenwich Meridian, International Date Line, crescent, equinox, fixed stars, leap year, longitude, lunar month, meridian, nebula, solstice, tilt, waning, waxing,	life cycle, birth, growth, reproduction, hibernate, nocturnal, metamorphosis, breeding cycle, hatch, prey, predator, reproduce, migration, genetic, endangered, threatened, extinct, extinction, evolution, reproduction, reproduce, flower, seeds, pollinator, pollination, fertilisation,	filter, evaporate, particle, dissolve, soluble, solution, contaminated, impurity, purity, suspension, saturated, saturation, reversible, non-reversible, microbes, bacteria, residue, purify, sterilise change of state, reaction, inflate, rust, oxidise, oxygen, corrode, tarnish; fuel, heat, burn, burning, flammable, flame, melts, solidifies,	reproduction, reproduce, propagate, runners, tubers, bulbs, sexual, asexual, mate, sperm, pregnant, give birth,

Year 6 Scientific vocabulary

variables, independent variable, dependent variable, control variable, evidence, justify, argument (science), causal relationship, accuracy, precision, scatter graphs, bar graphs, line graphs, force meter investigation, fair test, change, measure, predict, prediction, explanation, observations, draw conclusions

Classification of living things	Evolution and inheritance	What light does	Human circulation	Electricity – changing circuits	Body health
---------------------------------	---------------------------	-----------------	-------------------	---------------------------------	-------------

<p>Kingdoms of living things: Animalia, Plantae, Fungi, Protista, and Monera</p> <p>Plant kingdom: flowering plants, conifers, ferns, mosses and algae</p> <p>Animal kingdom: vertebrates, fish, amphibians, mammals, birds, reptiles, invertebrates, molluscs</p> <p>Microorganism: Fungi, micro-organisms (microbes) bacteria</p> <p>courtship, plumage, habitat, adaptation,</p>	<p>population, variation, environment, inheritance, adaptation, selective breeding, generation, evolution, fossils, genes, genetics, DNA, extinct, extinction, speciation,</p>	<p>light, dark, reflect, opaque, transparent, translucent, ultra violet, refraction, periscope, spectrum, dispersion, inverted, medium,</p>	<p>aorta, artery, atrium, blood vessel, capillaries, , cells, chamber, chest cavity, circulation, circulatory system, deoxygenated blood, digestive system, digestive tract, heart valves, hydration, lubricant, lungs, muscular system, nutrition, oxygenated plasma, platelets, valve, vein, ventricle, white blood cells</p>	<p>cell, battery, filament, electrical insulator, electrical conductor, mains electricity, terminal, slide switch + types of switch, series circuit, resistance, resistor, current, generator, fossil fuels, nuclear, power stations, wind turbine, tidal flow, hydro-electric,</p>	<p>alcohol, asthma, balanced diet, beats per minute (bpm), calories, cigarettes, clinical trial, doping, drugs, heart rate, legal, lifestyle, long-term effect, medicine, passive smoking, performance enhancing, pulse rate, RDA (recommended daily allowance), scurvy, short-term effect, solvents, steroids, tobacco, unsaturated</p>