

LEYS FARM JUNIOR SCHOOL
SCIENCE VOCABULARY PROGRESSION

	Pre-KS2 (KS1)	Year 3	Year 4	Year 5	Year 6
Working Scientifically	Question, answer, observe, observing, equipment, identify, classify, sort, group, record, diagram, chart, map, data, compare, more, less, same, different, bigger, smaller, contrast, biology, physics, chemistry, hypothesising, predicting, results, table, heading, conclusion, investigation, experiment, describe, label, simple test, recognise, beaker, measuring tape, ruler, measuring cylinder, stopwatch, measuring equipment.	Scientific enquiry, comparative, fair tests, careful, systematic, observations, gather, recording, classifying, present, keys, bar charts, tables, drawings, labelled diagram, predictions, hypothesis, hypothesising, grouping, identifying patterns, secondary sources, variables, dependent, control, independent, investigation, experiment, observing, results, conclusions, measurement, standard, units, differences, similarities, changes, scientific evidence, measuring equipment, thermometer, datalogger, measuring cylinder, beaker, compass, scales, stopwatch, beaker, light sensor, measuring tape, ruler, spring balance, findings, explanations, scientific process.		Scientific enquiry, variables, classification key, scatter graphs, line graphs, predictions, comparative, fair test, conclusion, validity, reliability, evaluation, hypothesising, hypothesis, patterns, describe, classify, evaluate, secondary sources, control variables, independent variables, dependent variables, investigation, experiment, observing, controlling variables, accuracy, precision, causal relationships, refute.	
Biology	Animals including humans: Offspring, babies, reproduction, growth, human, animal, baby, toddler, child, teenager, adult, egg, chick, chicken, caterpillar, pupa, butterfly, spawn, tadpole,	Animals including humans: Movement, move, respiration, respire, food, oxygen, energy, breathing, sensitivity, surroundings, reproduction, excretion, waste material, light, nutrition, diet, food, food	Animals including humans: Digestive system, food chains, producers, predators, prey, mouth, tongue, teeth, oesophagus, stomach, small and large intestine, carnivores, herbivores, omnivores, digestion, mixes,	Animals including humans: Human, development, baby, toddler, child, teenager, adult, puberty, gestation, length, mass, grow, growing, older, younger, puberty, childhood, adulthood, physical growth,	Animals including humans: Human circulatory system, heart, blood vessels, blood, deoxygenated, oxygenated, pulmonary artery, pulmonary veins, aorta, atrium, ventricle, valves, iron, oxygen, respiration,

	<p>frog, lamb, life cycle, sheep, basic needs, survival, changes, food, water, air, exercise, running, playing, dancing, football, healthy, fit, unhealthy, food groups, meat, dairy, milk, cheese, yoghurt, carbohydrates, bread, pasta, potato, fats, sugars, fruits, vegetables, calcium, hygiene, clean, germs, disease, illness.</p>	<p>groups, food chain, meat, dairy, milk, cheese, yogurt, carbohydrates, pasta, bread, rice, potato, fats, sugars, fruits, vegetables, calcium, protein, fibre, minerals, vitamins, energy, saturated fats, unsaturated fats, skeleton, human, animal, dog, lion, owl, shark, tortoise, muscles, support, protection, exercise, growth, repair, contract, relax, biceps, triceps, calf, vertebrate, endoskeleton, invertebrate, exoskeleton, hydrostatic skeleton, pull, tendons, joints, skull, clavicle, scapula, ribcage, heart, lungs, humerus, vertebral column, ulna, pelvis, radius, femur, tibia, fibula, brain.</p>	<p>moistens, saliva, transports, acid, enzymes, absorbs, water, vitamins, compacts, colon, incisors, cutting, slicing, canines, ripping, tearing, molars, chewing, grinding, floss, brush, sun, lettuce, grass, seeds, plants, nuts, squirrels, grasshoppers, ladybird, flies, birds, birds of prey, rabbit, fox, badger, deer, lion, zebra, cheetah, elephant, goat, sheep, horse, polar bear, seal, fish.</p>	<p>reproduction, hypothalamus gland, pituitary gland, hormones, larynx, sweat glands, pubic, facial, scrotum, testes, penis, laryngeal cartilage, male sexual organs, testicles, testosterone, sperm, breasts, menstruate, ovaries, oestrogen, progesterone, periods, uterus, period, fertilised egg, menstrual cycle, emotions, hair growth.</p>	<p>breathlessness, tiredness, carbon dioxide, diet, exercise, lifestyle, nutrients, skeletal, muscular, digestive, drugs, health, internal organs, lungs, liver, kidney, brain, skeleton, muscle, digest, digestion, impact, damage, alcohol, substances, alcohol, tobacco, medicine, legal, illegal, paracetamol, ibuprofen, Calpol, smoking, nicotine, binge-drinking, e-cigarette, caffeine, cough syrup, heartbeat, circulate, travel, pulse, transports, acid, enzymes, absorbs, absorption, urine, salivary glands, duodenum, stools, oesophagus, liver, bile, mouth, tongue, stomach, pancreas, bloodstream, rectum, anus, chyme, molecules, carbohydrase, protein, protease, amino acids, fatty acid, glycerol, lipase, muscle layers, mucosa, villi, serosa, villus, bacteria, gas, colon, cecum, sigmoid colon, capillaries, cells, water soluble, filtration, kidneys, ultrafiltrate, urethra, bladder, ureter.</p>
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	<p>Evolution and Inheritance: Palaeontologist, Palaeontology, fossils, bones, living things, identical, nature, humans, animals, grow, time, change, dinosaurs, dead, extinct.</p>	<p>Evolution and Inheritance: (See Rocks, Living Things and Their Habitats, Plants and Animals including Humans)</p>	<p>Evolution and Inheritance: (See Living Things and Their Habitats and Animals including Humans)</p>	<p>Evolution and Inheritance: (See Living Things and Their Habitats and Animals including Humans)</p>	<p>Evolution and Inheritance: Inheritance, inherit, cells, chromosomes, DNA (Deoxyribonucleic acid), genes, nucleus, replicate, divide, genetic code, characteristics, genome, living things, change, fossils, offspring, vary, variation, not identical, evolution, adaptation, mutation, adaptive traits, Charles Darwin, Alfred Wallace, adapt, environment, habitat, extreme conditions, advantageous, disadvantageous, palaeontologist, palaeontology, Mary Anning, inhabited, taste, smell, polar regions, tropical rainforests, mountains, oceans, deserts, coniferous forests, grasslands, heath, natural selection, The Theory of Evolution, Galapagos Finches, evolved, natural selection, fossilisation, sediments, sedimentary rocks, endoskeletons, exoskeletons, calcium, decay, species, Carl Linnaeus, selective breeding,</p>
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	<p>Living Things and Their Habitats: Space, habitat, micro habitat, natural environment, local environment, polar habitat, moss, ocean habitat, seaweed, algae, plankton, whale, fish, shark, habitat, oak tree, squirrel, fox, badger, woodpecker, owl, bugs, insects, acorn, rainforest, tiger, howler monkey, urban habitat, dandelion, desert habitat, acacia tree, camel, gecko, scorpion, coastal habitat, seashore, starfish, crab, pond habitat, waterlily, frog, duck, dragonfly, features, damp, wet, dry, shady, dark, light, hot, warm cold, ice, snow, living, dead, alive, not alive, air, live processes, movement, breathing, nutrition, food, growth, reproduces, shelter, warmth, protection,</p>	<p>Living Things and Their Habitats: (See Plants and Animals including Humans)</p>	<p>Living Things and Their Habitats: Ferns, mosses, classify, environment, habitat, vertebrates, amphibians, reptiles, mammals, invertebrates, nature, reserve, ecological, deforestation, flowering, non-flowering, population, insect, classification, Venn diagram, Carroll diagram, classification key, organisms, characteristics, life processes, movement, respiration, sensitivity, growth, reproduction, excretion, nutrition, fur, feathers, legs, beaks, tusks, shells, skeleton, climate change, extinct, danger, oxygen, energy, young, waste, endangered species, pollution, urbanisation, nature reserves, specimen, group, identify.</p>	<p>Living Things and Their Habitats: Life cycle, mammal, amphibian, insect, bird, reproduction, sexual, asexual, reproduction, rainforest, prehistoric, seeds, stem, root, cuttings, tubers, bulbs, hatching, rearing, animal naturalists, animal behaviourists, vegetable, garden, flower, border, oceans, classification, gestation, embryo, warm-blooded, frog, tadpole, eggs, juvenile, adulthood, fertilised, hatchling, metamorphosis, pupa, larva, caterpillars, grubs, maggots, nymph, germination, roots, pollen, photosynthesis, spores, stages, germination, growing, flowering, anchor, pollen, stigma, seed formation, fertilisation, spores, spore production, spore dispersal, fern, offspring, sex cells, fusing,</p>	<p>cross breeding, garden strawberry, poodle, Labrador, labradoodle, genetically modified foods (GM), cloning.</p> <p>Living Things and Their Habitats: Micro-organisms, plants, animals, invertebrates, insects, spiders, snails, worms, vertebrates, fish, amphibians, reptiles, birds, mammals, Carl Linnaeus, classification, characteristics, taxonomists, systema naturae, domain, kingdom, phylum, class, order, family, genus, species, archaea, bacteria, backbone, arachnids, annelids, molluscs, crustaceans, echinoderms, annelids, dust mites, fungi, mould, yeast, penicillin, viruses, antibiotics, plaque, cells</p>
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	<p>water, plants, green plants, sunlight, source of food, food chain, transfer, energy, producer, consumer, predator, prey, dependence, omnivore, herbivore, carnivore.</p> <p>Plants: Germination, growth, grow, seed, bulb, planted, cutting, tubers, soil, plant pot, ground, life cycle, germinate, roots, spread, underground, sprout, shoots, seedling, above ground, stem, harder, thicker, leaves, green, seed leaves, true leaves, buds, flower, blossom, petals, fruit, vegetables, mature plant, forest, woodland, wild plant, garden, garden plant, water, watered, watering can, light, shade, sun light, grow upwards, suitable, temperature, warm, heat, nutrients, reproduction, healthy, green, upright, unhealthy, living, alive, manmade, decay, wilting, crispy, dry, brown, yellow, shrivel, fall,</p>	<p>Plants: Plants, structure, flowering plants, roots, steady, support, upright, stem, carries water, nutrients, transport, trunk, leaves, photosynthesis, sun, carbon dioxide, oxygen, flowers, petal, pollen, travel, sunlight, food, nutrition, attractive, attract, stamen, nectar, stigma, carpel, sepal, receptacle, reproduction, reproduce, fertilizer, conditions for growth, air, light, soil, room for growth, life cycle, transpiration, transportation vessels, xylem, capillary action, cacti, lily, succulent, sunflower, orchid, spider plant, snake plant, palm tree, bamboo, seed dispersal, seed formation, pollination, bees, humans, seeds, planting, vegetables,</p>	<p>Plants: (Not explicit in this year group)</p>	<p>pregnancy, structure, sperm, ovules, stamen, style, ovule, strawberry plants, potatoes, spider plants, daffodils, echidnas, platypus.</p> <p>Plants: (Not explicit in this year group)</p>	<p>Plants: (Not explicit in this year group)</p>
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	food chain, producer, habitat.	beans, wheat, animals, sandbur, wind, functions.			
Chemistry					
	<p>Materials (Everyday materials): Metal, plastic, glass, brick, rock, paper, cardboard, suitable, unsuitable, purpose, strong, rigid, bendy, hard, soft, furry, transparent, opaque, translucent, absorbent, smooth, shiny, dull, brittle, rough, silky, stretchy, wood, squashing, bending, twisting, stretching, shape, solid, malleable, coins, cars, cans, table, spoons, matches, floor, telegraphy, rubber, waterproof fabric, scissors, paperclip, money, cube, pins,</p> <p>Rocks: Soil, rock, stone, rough, chalk, marble, brick, fossil, crystal, hard, soft, pebble,</p>	<p>Materials: (See Rocks, Light and Forces and Magnets)</p> <p>Rocks: Obsidian, chalk, marble, granite, sandstone, quartzite, basalt, limestone, brick, tile,</p>	<p>Materials (States of Matter): 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, water vapour, materials, cycle, precipitation, particles, vibration, movement, carbon dioxide, dissolve, oxygen, rate of evaporation, droplets, rain, hail, snow, wind, precipitation, rain, underground water, seas, lakes, rivers, streams, puddles, ponds, clouds, absorbed.</p> <p>Rocks: (Not explicit in this year group)</p>	<p>Materials (Properties and changes in materials): Properties, hardness, solubility, transparency, electrical, conductor, thermal conductor, thermal insulators, dissolve, solution, separate, separating, solids, liquid, gases, evaporating, reversible changes, irreversible, mixing, evaporation, filtering, filtration, sieving, melting, burning, materials, rusting, magnetism, electricity, chemists, Spencer Silver, Ruth Benerit, conductivity, insulation, chemical, solubility, conductivity, substance, metals, wood, plastic, rusting, chemists, bicarbonate of soda, toast, boiling, condensing, evaporating, changes of state, acid.</p> <p>Rocks: (Not explicit in this year group)</p>	<p>Materials: (Not explicit in this year group)</p> <p>Rocks: (Not explicit in this year group)</p>

	heavy, light, strong, sand, small, sharp, ground, mould, smooth, bumpy, tough.	slate, smooth, rough, coarse, soft, hard, coade stone, texture permeable, impermeable, natural rocks, human-made rocks, man-made rocks, igneous rock, sedimentary rock, metamorphic rock, magma, lava, sediment, weathering, density, fossilisation, palaeontology, erosion, acid, erodes, minerals, air, water, organic matter, decay, remains, compost, decomposed, waste, trimmings, manure, fallen leaves, kitchen waste, peat, soil, sediments, topsoil, subsoil, base rock, peat, boulder, fossil, grain, crystals, mould, cast, micro-organisms, properties, mould, cast, pressed, cools, volcanic ash, skeleton, pressure, deposited, grains, crystals.			
Physics					
	Earth and Space: Spaceman, spaceship, Moon, space, planets, dark, stars, Sun, night, sky, Earth, Saturn, astronaut, alien, rocket.	Earth and Space: (Not explicit in this year group) (See Light)	Earth and Space: (Not explicit in this year group) (See Sound)	Earth and Space: Earth, space, Sun, Moon, planets, star, solar system, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, dwarf planet,	Earth and Space: (Not explicit in this year group)

	<p>Electricity: Plug, electric, circuit, battery, wire, light, on, off, switch, danger, iPad, computer, charge, power, phone, tablet, computer, laptop, fridge.</p>	<p>Electricity: (See Light)</p>	<p>Electricity: Light bulb, electric cooker, fridge, freezer, televisions, appliance, electricity, electrical circuit, cell (battery), wire, bulb, buzzer, construct, connect, motor, wires, danger, safety, sign, insulators, wood, rubber, plastic, glass, metal, water, switch, open switch, closed switch, series, common</p>	<p>movement, rotate, orbit, axis, celestial body, spherical body, sphere, days, nights, light, heat, eclipse, satellite, universe, solar, astronomer, Ptolemy, Alhazen, Copernicus, shadow, clock, sundial, revolves, rotates, time zones, astronomical, East, West, Moon phases, Full Moon, New Moon, Crescent, Gibbous, reflects, waxing, waning, Waxing Half Moon, Waxing Crescent, Waning Crescent, Waning Half Moon, Waning Gibbous, Waxing Gibbous, Blue Moon, Neil Armstrong, months, years, length, seasons, Summer, Spring, Winter, Autumn.</p> <p>Electricity: (See Materials)</p>	<p>Electricity: Voltage, brightness, volume, switches, danger, series, sign, circuit, diagram, switch, bulb, buzzer, motor, symbols, components, parallel, circuits.</p>
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	<p>Forces: Push, pull, magnetic, magnet, non-magnetic, metal, attract, paper clip, wooden block, key, Lego, screw, bolt, plastic lid, plastic bottle, pin, toy car.</p> <p>Light:</p>	<p>Forces (Forces and Magnets): Fast, slow, stationary, force, friction, open, surface, push, pull, motion, contact, distance, touching, not touching, magnet, magnetic, non-magnetic, magnetic field, poles, north pole, south pole, repel, repulsion, attract, attraction, metal, bar magnet, u-shaped magnet, horseshoe magnet, ring magnet, fridge magnet, compass, magnetic needle, electromagnetic, cylindrical magnet, oval shaped magnet, iron, nickel, cobalt, stainless steel, fabric, wood, glass, plastic, stone, paper, elastic, scissors, paperclip, money, cube, pins, safety pin, wood, sandpaper, carpet, plastic, smooth, shiny, rough, coarse, bumpy, ridge.</p> <p>Light:</p>	<p>conductors, conventional, current, voltage, loop, copper, iron, nickel, aluminium, lead, steel, cobalt, money, Thomas Edison.</p> <p>Forces: (Not explicit in this year group)</p> <p>Light:</p>	<p>Forces (Forces): Earth, gravity, air, air resistance, water resistance, friction, mechanisms, gears, levers, pulleys, movement, Galileo Galilei, Isaac Newton, gravitation, springs, effect, accelerate, decelerate, stop, change, direction, brake, pivot, push, pull, fulcrum, catapult, distance, descend, upthrust, buoyancy, volume, weight, newtons, mass, matter, strength, kilograms, newton meter, streamlined, materials.</p> <p>Light:</p>	<p>Forces: (Not explicit in this year group)</p> <p>Light:</p>
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	<p>Light, dark, reflection, mirror, smooth, shiny, flat, rough, shadow, sun, moon, torch, candle, lamp.</p> <p>Sound: Loud, noise, high, quiet, low, shout, yell, whisper, singing, thud, squeaky, bang, creaky, boom, music, echo.</p>	<p>Light, light source, natural light, Sun, sunlight, star, artificial light, torch, candle, visible light, dark, absence of light, reflection, reflect, reflective material, see, sight, vision, eye, pupil, retina, ray, mirror, concave, convex, smooth, shiny, flat, rough, uneven, earth, rotation, harmful, rays, UV (ultraviolet) rays, sunglasses, protection, sun safety, sun cream, tanning, sunburn, SPF (Sun Protection Factor), UVA protection, shade, hottest, strongest ray, hat, skin damage, eye damage, shadow, opaque, block, object, translucent, transparent, moon, midday, sunrise, sunset, north, east, south, west, clockwise, left to right, length, change in length, short, behind, surfaces.</p> <p>Sound: (Not explicit in this year group)</p>	<p>(Not explicit in this year group)</p> <p>Sound: Vibrate, vibration, vibrating, air, medium, ear, hear, sound, volume, pitch, faint, fainter, loud, louder, string, percussion, woodwind, brass,</p>	<p>(See Earth and Space)</p> <p>Sound: (Not explicit in this year group)</p>	<p>Light, reflect, travels, reflection, source, object, shadows, mirrors, periscope, rainbow, filters, spectrum, straight, electromagnetic radiation, photons, waves, rays, beams of light, bounce, scattering, incident ray, reflected ray, angle of reflection, perpendicular, reflector, refraction, prism, transparent, translucent, opaque, visible.</p> <p>Sound: (Not explicit in this year group)</p>
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			insulate, insulation, insulate, instruments, twang, blow, bang, scrape, shake, pluck, strings, amplitude, quiet, quieter, solids, liquids, gases, sound waves, particles, ear canal, middle ear bones, hammer, anvil, stirrup, cochlea, electrical signals, hearing nerve, higher, lower, tighter, thinner, shorter, looser, thicker, longer, column of air, trombone, absorbed, phone, radio, walkie talkie, television, sound sources, soundproofing, ear defenders.		
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