

St. Luke's C of E (Aided) Primary School



Science Information 2021-2022

SEPTEMBER 2021

Language Progression

At St. Luke's, we understand the importance of children using the correct terminology during their science lessons. It is important that as children progress through the key stages, their understanding of key language is developed and built upon previously learnt information.

Working Scientifically

Key Stage	Terminology
KS1	Question, answer, observe, observing, equipment, identify, classify, sort, group, record (diagram, chart, map), data, compare, contrast, describe, biology, chemistry, physics.
LKS2	Research (relevant questions, scientific enquiry), comparative and fair test, systematic, careful observation, accurate measurements, equipment (thermometer, data logger), 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.

UKS2	Plan, variables, measurements, accuracy, precision, repeat readings, report data (scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graph), predictions, further comparative and fair test, report and present (conclusions, causal relationship, explanations, degree of trust, oral and written display, presentation), evidence (support, refute ideas or arguments), identify, classify and describe, patterns, systematic, quantitative measures.
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Plants

Year Group	Terminology
Year 1	Common, wild plants, garden plants, deciduous, evergreen, tree (deciduous evergreen, trunk, branches, leaf, root), plant (leaf, root, leaves, bud, flowers, blossom, petals, root, stem, fruit, vegetables, bulb, seed)

Year 2	Water, light, suitable temperature, grow, healthy, germination, reproduction.
Year 3	Structure (flowering plants, roots, stem/trunk, leaves, flowers) function (nutrients, support, reproduction makes its own food) requirements for life and growth (air, light, water, nutrients from soil, room to grow), needs vary, fertiliser, life cycle (flowers, pollination, seed formation, seed dispersal).

Materials

Year Group	Terminology
Year 1	Material (wood, plastic, glass, metal, water, rock), properties (hard/soft, stretchy/ stiff), shiny/dull, rough/smooth, bendy/not bendy, waterproof/not waterproof, absorbent/ not absorbent, brick, paper, fabrics, elastic, foil.

Year 2	Wood, metal, plastic, glass, brick, rock, paper, cardboard, squashing, bending, twisting, stretching, metal (coins, cans, cars, table legs), wood (matches, floors, telegraph poles), John Dunlop- rubber, Charles Macintosh- waterproof
Year 3	Appearance, physical properties, properties (soft/ hard, shiny/dull, rough/smoot, absorbent/not absorbent), fossils (sedimentary rock), soils (rock, organic matter), uses (buildings, grave stones, grains), crystals
Year 4	Solid (iron, ice, melt, freeze, liquid, evaporate, condense, gas, container), changing state (chocolate, butter, cream, heated, heat, cooled, cool, degrees Celsius, thermometer), water cycle (evaporate, evaporation, condense, condensation, temperature (melting, melt), ice (warm/cool), water (warm/cool, water vapour)

Year 5	Properties (hardness, solubility, transparency, conductive- electrical and thermal, response to magnets, dissolve (liquid, solution), separate, separating, solids, liquids, gases (filtering, sieving, evaporating), reversible changes (dissolving, mixing, evaporation, filtering, sieving, melting), irreversible (new material, burning, rusting, magnetism, electricity, chemists (Spencer Silver, Ruth Benerito), quantitative measurements (conductivity, insulation, chemical
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Electricity

Year Group	Terminology
Year 3	Appliances, electricity, electrical circuit, cell, wire, bulb, buzzer, danger, electrical safety, sign, insulators, wood, rubber, plastic, glass, conductors, metal, water, switch, open, closed
Year 6	Voltage, brightness, volume, switches- on/off, danger, series circuit, working safely with electricity, circuit diagram, switch, bulb, buzzer, motor, recognised, symbols, electrical safety, sign.

Living Things and their Habitats

Year Group	Terminology
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Year 2	Living, dead, never alive, habitats, micro-habitats, food, food chain, sun-grass-cow-human, alive, healthy, stony path, under bushes, shelter, seashore, woodland, ocean, rainforest, conditions, hot/warm/cold, dry/damp/wet, bright/shade/dark
Year 4	Environment, flowering, non-flowering, plants, animals, vertebrate, environment, dangers, vertebrate (fish, amphibians, reptiles, birds, mammals), invertebrates (snails, slugs, worms, spiders, insects), plants (flowering plants-including grasses, non- flowering plants-including mosses and ferns), human impact, positive (nature reserves, ecologically planned parks, garden ponds), negative (population, development, litter, deforestation.
Year 5	Life cycles (mammals, amphibian, insect, bird, life process of reproduction, plants, animals), vegetable garden, flower boarder, animal naturalists- David Attenborough, animal behaviourist- Jane Goodall, reproduction plants (sexual, asexual), lifecycles around the world (rainforest, oceans, desert, prehistoric, similarities, differences)

Year 6	Micro-organisms, plants, animal, classification, classify animals, invertebrates (insects, spiders, snails, worms), vertebrates (fish, amphibians, reptiles, birds, mammals), scientists - Carl Linnaeus
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Animals including Humans

Year Group	Terminology
Year 1	Common animals, fish, amphibians, reptiles, birds, mammals, pets, carnivores (meat, cat, dog, lion, tiger, fox, shark, killer whale, eagle, hawk, snake, tyrannosaurus rex), herbivores (plants, cow, hamster, guinea pig, tortoise, triceratops), omnivores (meat and plants, badger, human, bear, chickens), head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth.
Year 2	Offspring, grow, adults, nutrition, reproduce, survival (water, food, air, exercise, hygiene, egg-chick-chicken, egg-caterpillar-pupa-butterfly, spawn-tadpole-frog, lamb-sheep, baby-toddler-child-teenager- adult

Year 3	Nutrition, vitamins, minerals, fat, protein, carbohydrates, fibre, water, skeletons- (support, protection), skull (brain), ribs (heart, lungs, movement), joint, muscles (movement, pull, contract, relax), diet.
Year 4	Human digestive system, mouth, tongue (mixers, moistens, saliva), teeth (incisors- cutting, slicing, canines-ripping, tearing, molars- chewing, grinding), oesophagus, transports, stomach, acid, enzymes, small intestine, large intestine, carnivore, herbivore, brush, floss, food chain, sun, producers, prey, predators.
Year 5	Human development, baby-toddler-child-teenager-adult, puberty, gestation, length, mass, grows, grow, growing.
Year 6	Human internal organs (heart, lungs, liver, kidney, brain), skeletal, skeleton, muscle, muscular, digest, digestion, digestive, human circulatory system (heart, blood, vessels, blood), impact (diet, exercise, drugs), lifestyle, nutrients, water, damage (drugs, alcohol substance)

