



St. John's CE Primary School

Science Long Term Plan Vocabulary

| Scientific Vocabulary | |
|---|---|
| Nursey | Reception |
| <p>look closely, observe, watch, touch, feel, smell, listen, same, different, compare, ask questions, record, sort, group</p> <p>plant, leaf, stem, branch, root, bark, flower, petal, seed, berry, fruit, vegetable, bulb, hole, dig, water, weed, grow, shoot, die, dead, soil, names of plants they grow</p> <p>natural, animal, leaves, conkers, acorns, twigs, bark, shells, feathers, pebbles, stones, same, different, pattern plant</p> <p>egg, chick, bird, caterpillar, cocoon, chrysalis, butterfly, frog spawn, tadpole, 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</p> <p>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</p> <p>light, torch, bulb, lamp, spotlight, shiny, bright, brighter, brightest, Sun, shine, glow, mirror</p> <p>object, float, sink, water, up, down, top, bottom, push, pull, magnet, spring, squash, bend, twist, stretch, turn, spin, smooth, rough, fast, slow</p> <p>sound, noise, loud, quiet, high, low, music, bang, blow, pluck, soft, hard, fast, slow, names of instruments</p> <p>Sun, Moon, Earth, star, planet, sky, day, night, space, round, bounce, float</p> | <p>look closely, observe, watch, touch, feel, smell, listen, same, different, compare, ask questions, record, sort, group</p> <p>tree, bush, herb, names of plants they see</p> <p>plant, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment (e.g. beach, forest)</p> <p>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, father, aunt, uncle, grandmother, grandfather, cousin, friend, family, boy, girl, man, woman</p> <p>spring, summer, autumn, winter, seasons, sunny, cloudy, hot, warm, cold, shower, raining, storm, thunder, lightning, hail, sleet, snow, icy, frost, puddles, windy, rainbow, animals, young, plants, flowers</p> <p>ice, water, frozen, icicle, snow, melt, wet, cold, slippery, smooth, big, bigger, biggest, smaller, smaller, smallest, hard, soft, bendy, rigid, wood, plastic, paper, card, metal, strong, weak, hot, apply heat, waterproof, soggy, not waterproof, best, change, change back</p> <p>Sun, sunny, light, shadow, shady, clouds, torch, see-through, not see-through, source, light source</p> <p>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</p> <p>sound, noise, listen, hear, music, voices, bird song, traffic, sirens, thunder, high, low, loud, quiet, soft, volume, crackle, thunder, hum, buzz, roar</p> |



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| Working Scientifically | | | | | |
|--|---|--|---|---|--|
| Year 1 and 2 | | Year 3 and 4 | | Year 5 and 6 | |
| Questions, answers, equipment, gather, measure, record, secondary sources, hand lenses, egg timers, ruler, tape measure, metre stick, beaker, pipette, syringe, identify, classify, sort, group, observe change over time, notice patterns, differences, similarities, diagram, chart. | | oral and written explanations, conclusion, predictions, criteria, classify, changes, data, contrast, compare, evidence, results, improve, secondary sources, guides, keys, construct, interpret, accurate, notice patterns, fair test research – relevant question equipment – thermometer, data logger, magnifying glass, data – gather, standard units, record, classify, present, order, measure record – drawings, labelled diagrams, keys, bar charts, tables | | plan, variables, measurements, accuracy, precision, repeat readings, predictions, further comparative and fair test, identify, classify and describe, patterns, systematic, quantitative measurements, average, similarities, link, differences, increase/decrease, secondary sources, o report data – scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graphs report and present – conclusions, casual relationships, explanations, degree of trust, oral and written display and presentation evidence – support, refute, ideas or arguments, opinion/fact, biology, physics, chemistry | |
| Animals including Humans | Animals including Humans | Animals including Humans | Animals including Humans | Animals including Humans | Animals including Humans |
| Wild animals, pets, body, name body parts (hair, face, leg etc). , wing, claw, fin, scales, feathers, fur, beak, sense, hear, see, smell, touch, taste. | Offspring, babies, young, grow, change, adults, older/younger, basic needs, water, food, air, breathing, survival, exercise, food types, fruit and vegetables, bread, rice, potato, pasta, milk and dairy foods, foods high in fat or sugar, meat, fish, eggs, beans, hygiene, clean, wash, healthy, medicine, drugs. | Nutrition, nutrient, food types, fruit and vegetables, bread, rice, potato, pasta, milk and dairy foods, meat, fish, egg, beans, food high in fat or sugar, carbohydrates, protein, vitamins and minerals, fat, dietary fibre, water, balanced diet, skeleton, protection, movement, skull, ribs, spine, vertebra, joints, sockets, bones, tendons. | Digestive system, nutrition, nutrient, mouth, teeth, canines, incisors, molar, pre-molar, saliva, tongue, rip, tear, chew, grind, cut, oesophagus, stomach, small intestine, large intestine, rectum, anus, carnivore, herbivore, omnivore, producer, consumer, predator, prey, food chain. | Womb, foetus, embryo, gestation, baby, toddler, teenager, elderly, growth, development, puberty. | Circulatory system, heart, blood, blood vessels, pumps, oxygen, carbon dioxide, lungs, nutrients, water, diet, exercise, drugs, lifestyle. |



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Science Long Term Plan Vocabulary

| Plants | Plants | Plants | Living Things and their Habitats | Living Things and their Habitats | Living Things and their Habitats |
|---|---|--|---|--|---|
| Leaf/leaves, flower, blossom, petal, fruit, berry, root, bulb, seed, trunk, branch, stem, bark, stalk, vegetable. | Seeds, bulbs, fully grown, water, light, damp/wet/dry, dark/light, hot/warm/cool/cold, use comparatives e.g. hotter, grow/growth, healthy, shoot, seedling, wither/limp, die, dry/crispy, soil, earth. | Leaf/leaves, flower, blossom, petal, fruit, berry, root, bulb, seed, trunk, branch, stem, bark, stalk, water, light, air, nutrients, soil, damp/wet/dry, dark/light, hot/warm/cool/cold, fertiliser, use comparatives e.g. hotter, grow/growth, healthy, transported, life cycle, pollination, seed formation, seed dispersal. | Classification keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates, invertebrates, names some invertebrates, human impact. | Life cycle, reproduction, sexual, asexual, mammal, amphibian, insect, bird, fish, reptile, eggs, live young. | Organism, micro-organism, fungus, mushroom. |
| Everyday Materials | Uses of Everyday Materials | Rocks and Soils | States of Matter | Properties and Changes to Materials | Evolution and Inheritance |
| Objects, material, wood, plastic, glass, metal, water, rock, brick, paper, fabrics, card/cardboard, elastic, foil, rubber, wool, clay, hard, soft, stretchy, bendy, stiff, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see through, not see through. | Suitable/unsuitable, use/useful, object, material, property, wood, plastic, metal, glass, water, rock, paper, fabric, brick, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, rigid, flexible, waterproof, absorbent, strong/weak, rough, smooth, reflective, | Rock, stone, pebble, boulder, soil, fossils, grains, crystals, hard/soft, texture, absorb water, let water through, marble, chalk, granite, sandstone, slate, sandy soil, clay soil, chalky soil, peat, sedimentary, metamorphic, igneous. | States of matter, solid, liquid, gas, powder, grain/granular, crystals, change state, ice/water/steam, water vapour, heated/heating, cooled/cooling, temperature, degrees/Celsius, melt, freeze, solidify, melting point, molten, boil, boiling point, evaporate (tion), condense (tion), water | Solubility, electrical conductivity, thermal conductivity, melting, dissolve, solution, soluble, insoluble, solute, solvent, particle, mix/mixture, filtering, sieving, evaporating, condensing, reversible changes, new material, not usually reversible, irreversible, burning, gas given off, rusting, hard/soft, stretchy/rigid, flexible, waterproof, | Evolution, suited/suitable, environment, adapted, adaption, offspring, characteristics, vary/variation, inherit/inheritance, fossils. |



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Science Long Term Plan Vocabulary

| | non-reflective, transparent, opaque, translucent, shape, changed, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching, pinch/pinching, poke/poking, roll/rolling, squeeze/squeezing. | | cycle, precipitation, transpiration. | absorbent, strong/weak, rough, smooth, reflective, non-reflective, transparent, opaque, translucent. | |
|--|---|--|--|--|--|
| Seasonal Changes | Living Things and their Habitat | Light | Sound | Earth and Space | Light |
| Season, Spring, Summer, Autumn, Winter, weather, hot/warm, cool/cold, sun/sunny, cloud/cloudy, wind/windy, rain/rainy, hail/hailing, sleet, frost, ice/icy, rainbow, thunder, lightning, storm, light/dark, day/night. | Living, dead, never been alive, move, grow, feed, have offspring/young/babies, name locations e.g. pond/woodland/meadow, name microhabitats e.g. under log/on a stony path/under bushes, damp/wet/dry, dark/light, hot/warm/cool/cold, use comparatives e.g. hotter, suited/suitable, basic needs, depend, food, food chain, shelter. | Light, light source, names of light sources, torch, dark/darkness, reflect, reflective, mirror, shadow, block, direct/direction, transparent, opaque, translucent. | Sound, sound source, noise, vibrate/vibration, travel, solid/liquid/gas, pitch, tune, high/low, volume, quiet/loud, fainter, muffle, strength of vibrations, insulation, instrument, percussion, strings, brass, woodwind, tuned instrument. | Earth, planets, Sun, solar system, Moon, celestial body, sphere/spherical, rotate, rotation, spin, night and day, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, dwarf planet, orbit, revolve, geocentric model, heliocentric model, shadow clocks, sundials, astronomical clocks. | Light, light source, names of light sources, dark/darkness, reflect, reflective, mirror, shadow, block, absorb, refraction, spectrum, rainbow. |



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Science Long Term Plan Vocabulary

QEGSMAT

| | | Forces and Magnets | Electricity | Forces | Electricity |
|--|--|--|--|---|--|
| | | Force, pushing/pulling, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, non-magnetic material, poles, north pole, south pole. | Electricity, appliance/device, mains, plug, electrical circuit, circuit diagram, circuit symbol, components, cell, battery, positive/negative, connect/connection, loose connection, short circuit, wire, crocodile clip, bulb, bright/dim, switch, buzzer, motor, fast(er)/slow(er), conductor, insulator, metal/non-metal. | Fall, gravity, air resistance, water resistance, friction, moving surfaces, mechanisms, levers, pulleys, gears, force, transfers. | Volume, motor, fast(er)/slow(er), conductor, insulator, metal/non-metal, voltage, current, amps, resistance. |