



Walford Nursery & Primary School

Science Curriculum

Key Vocabulary Progression



EYFS – Nursery

Animals Including Humans: head, eyes, nose, mouth, ears, hands, fingers, feet, toes, arm, leg, animal

Plants: tree, leaf, flower, stem, seed

Materials: material, wood, glass, paper, hard, soft

Seasonal Changes: Summer, Spring, Autumn, Winter, day, dark, light, night, Season, Moon, Sun

Forces, Earth & Space: Earth, Moon, Sun, star

Sound, Light & Electricity: loud, quiet

EYFS – Reception

Animals Including Humans: herbivore, carnivore, omnivore, human, fish, birds, head, eyes, nose, mouth, ears, face, hair, hands, fingers, feet, toes, arm, elbow, leg, knee, back, animal

Plants: tree, trunk, branch, leaf, leaves, flower, stem, petals, fruit, roots, bulb, seed

Materials: material, wood, plastic, glass, paper, shiny, metal, rock, hard, soft, fabric, smooth, rough

Seasonal Changes: Summer, Spring, Autumn, Winter, day, dark, light, night, Season, Moon, Sun

Forces, Earth & Space: Earth, Moon, Sun, star, space, Planet

Sound, Light & Electricity: loud, quiet, volume, sound

WORKING SCIENTIFICALLY					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
question, answer, investigation, observe, observing, equipment, measure, record, results, evidence, test, explore, classify, patterns, identify, sort, group, compare, differences, similarities, describe, measurements, test, results, secondary sources record – diagram, chart equipment - hand lenses, egg timers, ruler, tape measure, metre stick, beaker, pipette, syringe		oral and written explanations, conclusion, predictions, criteria, classify, changes, data, contrast, evidence, improve, secondary sources, guides, keys, construct, interpret, questions, types of scientific enquiry, answer, similarities, differences, identify, sort, group, order, observe, changes over time, notice patterns, link, comparative tests, fair tests, careful, accurate observations, questions, answers, equipment, gather, measure, record results, present data/evidence, results, support/not support, accurate, appearance, decrease, types of scientific enquiry research – relevant question equipment – thermometer, data loggers, magnifying glass, microscope data – gather, standard units, record, classify, present record – drawings, labelled diagrams, keys, bar charts, tables		plan, variables, measurements, accuracy, precision, repeat, types of scientific enquiry, similarities /differences, changes, increase, decrease, sort, group, order, observe, changes over time, notice patterns, link, secondary sources, opinion/fact, comparative tests, fair tests, variables, independent variable, dependent variable, controlled variable, careful, accurate/accuracy, degree of trust observations, questions, answers, equipment, gather, measure, record, results, evidence, present data/evidence/results, readings, predictions, further comparative and fair test, identify, classify and describe, patterns, systematic, quantitative measurements report data – scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graphs equipment - thermometers data loggers magnifying glass microscope report and present – conclusions, casual relationships, explanations, degree of trust, oral and written display and presentation evidence – support, refute, ideas or arguments biology, physics, chemistry	

BIOLOGY: Animals, including Humans					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
amphibians, fish, reptiles, mammals, birds (+ 1 example of each), herbivore, omnivore, carnivore, head, nose, ear, neck, shoulder, arm, elbow, wrist, hand, back, chest, hip, leg, knee, ankle, foot, wing, beak, tail, fin, dorsal fin, gill, sight, smell, touch, taste, hearing	survival, water, air, food reproduce, adult, baby, offspring, kitten, calf, puppy, food chain, prey, predator, camouflage, protection, exercise, hygiene, balanced diet	skeleton, skull, bones, muscles, movement, support, protection, nutrition	mouth, tongue, teeth, oesophagus, stomach, small intestine, large intestine, nutrients, absorb, canine, incisor, molar producer, enamel, consumer, apex predator	womb, foetus, embryo, gestation, baby, toddler, teenager, elderly growth, development, puberty	function, circulatory system, heart, valve, blood vessel, vein, artery transport, oxygenated, deoxygenated, lifestyle, drug, illegal drug, addictive
BIOLOGY: Plants					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
deciduous, evergreen, tree, leaf, flower (blossom), petals, fruit, bulb, seed, roots, stem, trunk, branches	growth, germinate, light, temperature, reproduce, lifecycle	air, water, transportation, nutrients, soil, reproduction, seed formation, seed dispersal, pollination			
BIOLOGY: Living Things & Their Habitats					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	living, dead, habitat, microhabitat, woodland, meadow, hedgerow, pond		vertebrates, invertebrates (+ 1 example of each) environment, habitat, classification key	life process, reproduction, offspring	characteristic, classification, organism, micro-organism Evolution & Inheritance adaptation, evolution, characteristic, reproduction, genetics, survival

CHEMISTRY

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Everyday materials wood, plastic, glass, paper, metal, rock, hard, soft, rough, smooth, shiny, dull, bendy, stiff	Everyday materials and their uses brick, fabric, elastic, foil, property, solid, waterproof, absorbent, opaque, transparent, squash, bend, flexible, twist, stretch push, pull, roll, slide, bounce	Rocks soils, organic matter, organism, fossil, crystal, sandstone, granite, marble, pumice, crumble, sedimentary, layer, sediment, igneous, magma, lava, gas bubbles (tiny holes/spaces), metamorphic, change, squeeze, pressure, permeable, impermeable	States of matter solid, liquid, gas, evaporation, condensation, particle, temperature, freezing, heating	Properties and changes to materials hardness, transparency, conductivity (electrical, thermal) solubility, solution dissolve, filter, evaporate, sieve, reversible, irreversible	

PHYSICS

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Seasonal change season, spring, summer, autumn, winter, month, year, day, night, sun, moon, light, dark		Light light source, mirror, reflect, reflective, reflection shadow, blocked transparent, translucent, opaque	Sound vibration, wave, volume, pitch, tone, insulation	Earth & Space Earth, sun, moon, solar system, axis of rotation, day, night, phases of the moon, star, constellation	Light refraction, reflection, lens, iris, cornea, pupil, retina, sclera, optic nerve, light source, periscope
		Forces & Magnets force, contact, surface, magnetic, attract, repel, poles	Electricity appliance, battery power, main power, circuit, series, cell, battery, wire, bulb, switch, break in circuit conductor, insulator	Forces air resistance, water resistance, friction, gravity lever, gear, pulley, Newtons	Electricity circuit - series, parallel, voltage, volts, amps