



Science Vocabulary Progression Map



“Somewhere, something incredible is waiting to be known”

Intent: To give all children a strong understanding of the world around them, allowing them to discover the processes and ideas that make our world work.

		EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
BIOLOGY	Animals Including Humans	Hear, smell, touch, taste, see	Senses: Hear, smell, touch, taste, see Animals: Beak, wing, paw, feathers, claw, talons Main body parts: Head, neck, arms, elbows, legs, knees, face, ears, hair, mouth, teeth, abdomen, chest, shoulders, toes Classification: herbivore, carnivore, omnivore, mammal, living, bird, fish, reptile, amphibian Movement: fly, swim, crawl, run	Animals, plants, senses Health: Illness, medicine, exercise, hygiene, healthy, diet, fit, nutrition, unhealthy diet Life processes: survive, living, movement, respiration, growth, basic needs, reproduction, excretion, life process Life cycles: offspring, life cycle, baby, child, teenager, adult, elderly	Skeletal system: skeleton, muscle, bone, skull, ribs, spinal column, backbone, joints, sockets, femur, collarbone, humerus, ulna, radius, hip, pelvis, fibula, tibia, kneecap, shoulder blade, movement, support, protection, contract, relax Classification: vertebrates, invertebrates, insects, minibeasts, mammals, reptiles, fish, birds, amphibians Nutrition: food, growth, healthy, unhealthy, nutrition, exercise, balanced diet, sugar, fruit, vegetables, protein, carbohydrates, fat, dairy, vitamins, minerals	Teeth: canines, incisor, molars, premolars Diet/digestion: carnivore, herbivore, omnivore, digestion, large intestines, oesophagus, peristalsis, predator, prey, producer, saliva, small intestines, stomach	Reproduction / stages of life: baby, toddler, child, teenager, adult, senior, death, puberty, fertilise, egg, sperm, conception, foetus, womb, birth, develop, grow, change	Circulatory system: heart, heartbeat/heart rate, pulse, muscle, blood vessel, lungs, oxygen, oxygenated blood, deoxygenated blood, circulate, vein, artery Diet: diet, exercise, unhealthy, harmful, healthy, nutrients, water, transport, hygiene, smoking, alcohol, overweight

		EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
BIOLOGY	Plants	Plant, tree, leaf, root, flower, stem, water, soil, sun	plant, root, grow, branch, deciduous, evergreen, tree, flower, leaf, seed, stem, soil, trunk, to plant, to water Types of plants: tree, daisy, birch, dandelion, fir tree, buttercup, wild plant, pine tree, fruit, flower, nettle, oak tree, holly, vegetable, weed, sycamore tree	compost, sunlight, temperature, plant, tree, deciduous, evergreen Parts of a plant: flower, roots, stem leaf, bulb, seed, seedling	Vegetable, plant Reproduction: pollen, pollination, pollinators, formation, dispersal, reproduce Parts of a plant: root, branch, seed, flower, leaf, seedling, stem, bulb, fruit, flower, blossom, trunk Needs of a plant: compost, nutrients, grow, air, light, soil			
	Living Things & Habitats	Hibernate		alive, conditions, adapted, animals, plants, living, dead, survive, basic needs, life process, food chain Classification: carnivore, herbivore, omnivore Habitats: woodland forest, jungle, polar region, desert, mountain, habitat, microhabitat		adaptation, pollution, habitats, environment, environmental change Classification: exoskeleton, carnivore, herbivore, omnivore, mammal, reptile, bird, amphibian, key, classify, vertebrate, invertebrate, pigeon, eagle, gull, minibeast, insect Life processes: movement, respiration, growth, reproduction, excretion, nutrition, sensitivity	Classification: mammal, reptile, bird, fish, amphibian, insect Life processes: nutrition, movement, respiration, reproduction, excretion, growth, sensitivity Life cycles: egg, life cycle, womb, fertilisation, pollination, pollen, stamen, pistil, seed dispersal	characteristics, classify, environment, compare, features, classification key, key, flowering plant, non-flowering plant Classification: vertebrate, invertebrate, exoskeleton, vascular, non-vascular, taxonomy, herbivore, carnivore, omnivore, mammal, reptile, amphibian, bird, pigeon, eagle, seagull, fish Microorganisms: microorganism, bacteria, virus, fungi

		EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
BIOLOGY	Evolution							Evolution: environment, gene, natural selection, organism, evolution, change over time, species, population, features, trait, inherited, characteristics, reproduce, offspring, variation, mutation, survive, survival of the fittest, adaptation

		EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
CHEMISTRY	Materials		Properties: fragile, heavy, light, hard, soft, smooth, rough, squidgy, waterproof, strong, weak, bumpy, stretchy, see-through, breakable Materials: plastic, wood, rubber, fabric, metal, brick, rock, glass, paper, material, cotton, wool, fleece	Properties: fragile, heavy, light, hard, soft, smooth, rough, squidgy, waterproof, strong, weak, bumpy, stretchy, see- through, breakable Materials: plastic, wood, rubber, fabric, metal, brick, rock, glass, paper, material, cotton, wool, fleece			change, reversible, irreversible, saturation, insulation States of matter: solid, liquid, gas Properties: flexible, soluble, insoluble, durable, thermal, magnets, magnetic, permeable, absorbent Processes: dissolving, evaporating, sieving, filtration, heat, boiling, condensing, evaporation, freezing, melting, chemical change, physical change	

		EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
CHEMISTRY	Rocks				rocks, soils, stone, pebbles Types of rock: slate, marble, chalk, granite, sandstone, clay Properties: hard, soft, permeable, appearance, physical properties, acid Rock formation: sedimentary, metamorphic, igneous, magma, bedrock, fossil			
	States of Matter	Freeze, melt, ice, water, change				temperature, group, property, compare, particle, thermometer, research, change, degrees Celsius, observe States of matter: solid, liquid, gas, state of matter, carbon dioxide, oxygen, helium, natural gas, air Processes: solidify, heat, measure, condensation, boiling, cool, condense, evaporation, evaporate, melt/melting, freeze/freezing Water cycle: water cycle, run-off, precipitation, collection, condensation, evaporation, droplet		

		EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Physics	Forces and Magnets				contact, non-contact, iron, force, pull, push, magnet poles, attract, repel, magnetic, non-magnetic, metal, stronger, weaker, movement, bigger, smaller force		gear, lever, pull, newton meter, surface area, push, pull, movement, grip, contact, streamlined Types of force: repel, upthrust/buoyancy, friction, air resistance, gravity, drag	
	Seasonal Change	autumn, spring, winter, summer, change, seasons, weather	autumn, spring, winter, summer, seasons, grow, new life, year, change, tree, plant, shadow Weather types: sun, snow, rain, hail, wind Temperature: cold, hot, warm					
Physics	Earth & Space						day, month, year, gravity, shadow, time zones, revolve, orbit, spin, rotate, axis, reflect Solar system: Neptune, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Earth, Sun, Moon, planet, star, space, solar system Phases of the Moon: waning gibbous, waxing gibbous, waxing crescent, waning crescent, last quarter, full Moon, first quarter, new Moon	

		EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Physics	Electricity					appliance, battery, conductor, circuit, components, current, electrical, insulator, mains power, portable, pylon, switch		appliance, battery, conductor, circuit, components, current, electrical, insulator, mains power, pylon, renewable energy, non-renewable energy
	Light				dark, absence of light, luminous, travel, reflection, reflect, shadow, see, eyes, mirror, direction, straight lines Light source: torch, sunlight, light source Properties: opaque, translucent, transparent, reflective, block		dark, absence of light, luminous scattering, absorption, refraction, travel, direction, straight lines, bend, reflective, mirror, reflection, reflect, block, shadow, cast rainbow, colours see, eyes Light source: torch, light beam, Sun, light, light source, light ray Properties: opaque, translucent, transparent	
	Sound					vibrate, vibration, travel, sound, source, tension, particle, air Parts of the ear: pinna, cochlea, eardrum, ear Volume: quiet, loud, soft, loudness, volume, muffle, faint, noise Pitch: pitch, high, low		