



Stukeley Meadows Primary School



Getting our best even better, every single day
Be Kind – Work Hard – Aim High

Science Vocabulary Progression

EYFS to Year 6

This document is designed to assist with the teaching of scientific vocabulary across EYFS, KS1 and KS2 and is aligned with the White Rose schemes of learning. This document identifies in which year group vocabulary is explicitly, taught and introduced. We revisit vocabulary in subsequent year groups to ensure children are consolidating their understanding. Some additional vocabulary may be introduced earlier, if necessary as part of an activity, but it will not be the focus vocabulary (in the table below) which is made explicit to the children as part of each science lesson. This document ensures coverage is both supportive and progressive.

Animals, including humans						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth and teeth, sight, see, taste, touch, feel, smell, sound, hear, loud, quiet, noisy	Neck, arms, elbows, legs, knees, face, skin, ears, eyes, hair, mouth and teeth, sight, see, blind, dark, light, taste, sweet, salty, sour, bitter, savoury, touch – feel, smell, scent, sniff, stench, sound – hear, deaf, loud, quiet, noisy, mammal, wild, pet, herbivore, omnivore, carnivore, fur, bird, beak, feathers, webbed feet, flippers, wings, fin, tail, scales, gills, amphibian, frog, toad, newt, reptile, lizard, crocodile, turtle	Heart, exercise, physical and mental health, healthy diet, unhealthy diet, meat, vegetable, fruit, sugar, germs, hygiene, disease, doctor, teeth, plaque, filling, gums, offspring, growth, egg, adult, parent, baby, child, teenager, life cycle, mammal, adolescent, amphibian, frogspawn, tadpole, froglet, caterpillar, pupa, butterfly, compare,	Skeleton, movement and nutrition and diet skull, spine, pelvis, ribcage, femur, joints, hinge joint, ball and socket joint, muscle, bicep, tricep, contracting, relaxing, mammal, bird, fish, amphibian, reptile, antennae, insect, exoskeleton, carbohydrate, protein, dairy product, fat, sugar, fruit and vegetables, balanced diet, balanced meal, nutrition, Eatwell guide, vegan, vegetarian, pescatarian, omnivorous, diet, herbivore, omnivore, carnivore	Digest, oesophagus, stomach, small intestine, large intestine, rectum, food chain, herbivore, carnivore, omnivore, producer, predator, prey	Adolescent, baby, foetus, elderly adult, adult, life cycle, milestone, toddler, child, womb, period, reproduce, puberty, hormone, life expectancy, gestation, mammal, offspring, lifespan, correlation, anomaly	circulatory system, heart, blood vessels, veins, arteries, capillaries, red blood cells, white blood cells, lungs, nutrients, plasma, oxygen, atria, ventricles, left atrium, right atrium, left ventricle, right ventricle, oxygenated blood, deoxygenated blood, dissection, balanced diet, calories, saturated fats, unsaturated fats, trans fats, drug, painkiller, stimulants, depressants, cigarette, vape, tar, nicotine, carbon monoxide, addiction, independent variable, controlled variables, dependent variable, heart rate, duration, exercise, duration, conclusion, evaluation

	Autumn 1, Spring 2	Autumn 1, Autumn 2 Spring 2 Summer 2, Summer 4	Autumn 1, Autumn 2, Autumn 3	Summer 4, Summer 5	Spring 2	Summer 3, Summer 4
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Living things and their habitats						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
animal, pet, fur, cow, cat, dog, sheep, pig, chicken, duck, frog, bird, wings, fish, insect, bee, butterfly, caterpillar, snake, lion, tiger, bear, rabbit, elephant, plant, vegetable, fruit		Mammal, fur, herbivore, carnivore, omnivore, bird, feathers, beak, insect, insectivore, fish, scales, fin, gills, amphibian, webbed feet, frog, toad, newt, reptile, adult, baby, shelter, deciduous tree, evergreen tree, habitat, hibernate, cactus, rainfall, ocean, fish, seagrass, woodland, fern, moss, microhabitat, insect, spider, snail, diet, food chain, living, dead, never alive, plant, animal		vertebrate, mammal, bird, fish, amphibian, reptile, invertebrate, exoskeleton, insect, spider, soft-bodied invertebrate, flowering plant, non-flowering plant, stamen, carpel, pollination, fern, moss	Monotreme, offspring, mammary gland, mammal, life cycle, amphibian, frogspawn, tadpole, froglet, metamorphosis, larva, pupa, chrysalis, insect, bird's egg, hatchling, nestling, fledgling, adult bird, fertilisation, embryo, sperm cells, egg cells, sexual reproduction, pollination, pollen, ovule, clone, runner, tuber, bulb, asexual reproduction, cutting, parent plant, compost, independent variable, dependent variable, controlled variable,	organism, excretion, reproduction, living, non-things, vertebrate, invertebrate, flowering plant, non-flowering plant, classification, classification key, molluscs, arachnids, deciduous trees, evergreen trees, coniferous trees, microorganisms, bacteria, fungi, virus, Carl Linnaeus
		Spring 2, Summer 2, Summer 4		Autumn 1, Autumn 2 Spring 2 Summer 1, Summer 2	Spring 3 Summer 1, Summer 4	Autumn 1

Plants						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Earth, plant, tree, flower, grass	flower, petals, stem, seed, roots, leaf, soil, trunk, branch, wildflower, daisy	Flower, fruit, vegetable, herb, blossom, stem, leaf, trunk, branch, seed, plant, sunlight, independent variable, controlled variables, dependent variable, compost, bulb, shoot, roots, sunlight, temperature, growth, measurement, observe	Leaf, stem, roots, flower, soil, dissection, independent variable, dependent variable, controlled variable, seed, scales, measuring cylinder, water transportation, seedling, seed coating, germination, petals, stamen, pistil, reproductive organs, pollination, pollen, pollinators, wind dispersal, animal dispersal, water dispersal, explosion dispersal, seed dispersal, life cycle,			
	Spring 1, Spring 5 Summer 1, Summer 2	Spring 1, Spring 3, Summer 1, Summer 3	Summer 1, Summer 4			

Materials

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
rough, smooth, hard, soft, shiny, dull, float, sink, melt, freeze, wood, plastic, glass, metal, rock, heavy, light, solid, liquid	dark, light, longer, shorter, rough, smooth, hard, soft float, sink, melt, freeze, absorb water, wood, plastic, glass, metal, rock, material, shiny, dull, heavy, light, object, solid, liquid, independent variable, controlled variables, dependent variable, transparent & opaque	Natural material, manmade material, recycle, smooth, rough, flexible, rigid, rock, stone, pebble, brick, brittle, transparent, translucent, opaque, hard, soft, shiny, dull, fabric, tough, lightweight, squash, bend, twist, stretch, independent variable, controlled variables, dependent variable, waterproof, light, strong, breakable			Dissolve, soluble, insoluble, solution, substance, sieve, filter paper, mixture, insoluble, filtering, funnel, evaporation, states of matter, reversible change, reverse, chemical reaction, irreversible change, burning, heating, vinegar, bicarbonate of soda	
	Autumn 3	Autumn 3			Spring 1, Summer 2	

Rocks

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Sand, soil, rocks, stones, pebbles, gravel, chalk, clay, shell, skeleton, fossil, float, sink, sandy, chalky,			granite, pumice, sandstone, chalk, marble, gneiss, crystal, grain, layers, texture, reaction, float, sink, hardness, brittle, weathering, fossil, rock, skeleton, shell, fossilisation, sediment, soil, peat, chalky, sandy, clay, organic matter, nutrients, habitat loss, deforestation, independent variable, controlled variables, dependent variable, filter paper, filter funnel, measuring cylinder, absorb, conclusion, evaluation, data			
			Autumn 5 Spring 1, Spring 2			

States of Matter

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Water, ice, snow, frozen, melt, melting, boiling, steam				Solid, liquid, gas, volume, states of matter. Pouring solid, oobleck, flow, freezing melting, boiling, condensation, evaporation, thermometer, stopwatch, beaker, temperature, independent variable, dependent variable, controlled variable, melting point, water cycle, precipitation, atmosphere, global warming, water vapour, petri dish, observations, data, conclusion		
				Autumn 3		

Electricity

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Battery, switch, off, on, plug, socket				appliances, plug, socket, cell, electrocuted, circuit, switch, battery, buzzer, conductor, insulator, metal, material		Series circuit, cell, battery, bulb, current, voltage, complete circuit, incomplete circuit, switch, buzzer, independent variable, controlled

						variables, dependent variable, repeatability, accuracy, evaluation
				Spring 3		Autumn 2

Earth and space						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Sun, moon, stars, day, night, around					The Solar System, planets, spherical, stars, sun, orbit, surface, appearance, model, orbit, gravitational pull, heliocentric, orbit, geocentric, axis, rotation, North Pole, South Pole, night, day, moon, satellite	
					Autumn 2	

Seasonal changes						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Seasons, autumn, winter, spring, summer, daylight, weather, rain, cloud, frost, sun, snow, sleet, wind,	Season, autumn, daylight, night, weather, rainfall, rain gauge, winter, cloud, frost, sun, snow, sleet, wind, spring, summer					
	Autumn 2, Autumn 4, Spring 4 Summer 4					

Sound						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Loud, quiet, silent, hear, ears, noisy				Vibration, ear, sound, volume, pitch, outer ear, ear bones, cochlea, ear canal, ear drum, decibel (dB), decibel meter, insulate, high-pitched, low-pitched, independent variable, dependent variable, controlled variables, background noise, conclusion, evaluate		
				Spring 1		

Light						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Shadows, dark, light, longer, shorter, cloudy, sunny, similar,			light source, natural light, artificial light, eyes, sun, sunglasses, protect, reflection, shiny, dull, opaque, translucent, transparent,			Light source, iris, retina, pupil, lens, reflection, ray diagram, angle, periscope, shadow, opaque, translucent, transparent, solar

different, longest, shortest, day, night			shadow, independent variable, controlled variables, dependent variable, distance, conclusion evaluation			eclipse, independent variable, controlled variables, dependent variable, conclusion, evaluate, refraction, medium, rainbow, prism, coloured filter, spectrum of light
			Spring 3			Spring 1

Forces and magnets						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
push, pull, magnet, float, sink, wood, plastic, glass, metal, heavy, light,			Push, pull, force, contact force, friction, smooth, rough, independent variable, dependent variable, control variable, data, prediction, magnet, magnetic, non-magnetic, North Pole, South Pole, attract, repel		Force, contact force, friction, motion, air resistance, drag, parachute, independent variable, controlled variables, dependent variable, streamline, repeatability, precision, surface area, anomalous result, water resistance, gravity, weight, non-contact force, lever, gear, pulley, machine	
			Summer 2, Summer 3		Autumn 1	

Evolution and inheritance						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						Adaptation, fossil, environment, evolution, genes, inheritance, offspring, reproduction, artificial selection, natural selection
						Summer 1, Summer 2, Summer 3

Sustainability						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
earth, plant, animal, helpful, harmful, material, recycle, reuse	Environment, earth, plant, animal, helpful, harmful, material, recycle, reuse	Plastic, man-made material, recycle, single-use plastic, wildlife, insects, food chain, pollinate	Food waste, landfill, food label, compost, biodiversity	Electricity, mains electricity, battery-powered, renewable energy, non-renewable energy, appliance, Earth, energy usage, deforestation, oxygen, carbon dioxide, climate change	Global warming, greenhouse gases, fossil fuels, climate change, glaciers, ice cap, habitat, plastic, man-made material, recycle, single-use plastic	Solar power, wind power, renewable, non-renewable, global warming, greenhouse gases, migration, glare, light trespass, skyglow, light pollution, urban, rural, light emission, appliance
	Spring 3, Summer 3	Autumn 4, Summer 5	Autumn 4, Summer 5	Spring 4, Summer 3	Autumn 3, Summer 3	Autumn 3, Spring 2