



Science Vocabulary Progression



<u>Year Group</u>	<u>Vocabulary Taught</u>			
<u>EYFS</u>	places objects materials living alive dead environment animals plants change technology Summer Winter, Autumn Spring day daytime wind rain sleet hail fog cold sun hot	similar different wood plastic metal water fabric rock sort hard soft stretchy stiff shiny dull rough smooth bendy waterproof absorbent properties materials	habitats food chain shelter seashore woodland petal root leaf stalk water oxygen sunshine soil litter pollution scientist inventor experiment fish reptile pet bird mammal,	tongue taste nose smell ears hear eyes see skin touch rain shower drizzle storm freezing clouds season reflect light,



Science Vocabulary Progression



	<u>Working Scientifically Vocabulary (KS1)</u>					
	question, answer, observe, observing, equipment, identify, classify, sort, diagram, chart, map, data, compare, contrast, describe, biology, chemistry, physics, group, record					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<u>Year 1</u>	<p><u>Who Am I?</u></p> <p>Common Animals fish, amphibians reptiles, birds, mammals, pets</p> <p>Senses tongue – taste nose – smell eyes – vision skin – touch ears – hearing</p> <p>Omnivores meat and plants, badger, human, bear chickens</p> <p>Carnivores meat, cat, dog, lion, tiger, fox, shark, killer whale, eagle, hawk, snake, t-rex</p> <p>Herbivores plants, cows, horses, mice, elephants, deer</p> <p>head, leg, eyes, neck, knees, hair, arms,</p>	<p><u>Celebrations</u></p> <p>Material wood, plastic, glass, metal, water, rock, brick, paper, fabrics, elastic, foil</p> <p>Properties hard/ soft stretchy/ stiff shiny/ dull rough/ smooth bendy/ not bendy waterproof/ not waterproof absorbent/ not absorbent</p>	<p><u>Polar Adventures</u></p> <p>Everyday Materials – see A2.</p>	<p><u>Treasure Islands</u></p> <p>Animals, including humans – see A1.</p>	<p><u>On Safari</u></p> <p>Animals, including humans – see A1.</p> <p>Common wild plants garden plants deciduous evergreen</p> <p>Plant leaves, bud, flowers, blossom, stem</p> <p>Tree Deciduous, evergreen, trunk, branches, leaf, root</p> <p>fruitvegetables, bulb, seed</p>	<p><u>Holiday</u></p> <p>Everyday materials – see A2.</p>



Science Vocabulary Progression



	face, mouth, elbows, ears, teeth					
<u>Year 2</u>	<p><u>Materials</u></p> <p>cardboard</p> <p>squashing, bending, twisting, stretching</p> <p>Wood Matches, floors, telegraph poles</p> <p>wood, metal but not glass</p> <p>John Dunlop rubber</p> <p>Charles Macintosh Waterproof fabric</p> <p>John McAdam Macadamisation</p> <p>Metal coins, cans, cars, table legs</p> <p>Spoons Plastic</p>	<p><u>Materials</u></p> <p>Uses of everyday materials – see A1.</p>	<p><u>Animals including humans</u></p> <p>offspring, grow, adults</p> <p>Survival water, food, air, exercise, hygiene</p> <p>nutrition, reproduce</p> <p>egg, chick, chicken</p> <p>egg, caterpillar, pupa, butterfly</p> <p>spawn, tadpole, frog</p> <p>lamb, sheep</p> <p>baby, toddler, child, teenager, adult</p>	<p><u>Animals including humans</u></p> <p>Animals including humans – see Sp1.</p> <p>Materials – see A1</p>	<p><u>Living things and their habitats</u></p> <p>never alive, micro-habitats, sun, grass, cow, human, healthy, logs</p> <p>leaf litter, stony path, under bushes, shelter, seashore, woodland, ocean, rainforest, conditions, hot/ warm/ cold, dry/ damp/ wet, bright/ shade/ dark</p>	<p><u>Young gardeners</u></p> <p>Living things and their habitats – see S1.</p> <p>Plant bud, blossom, stem</p> <p>grow, healthy</p> <p>water, light, suitable, temperature</p> <p>germination</p> <p>reproduction</p> <p>vegetables, bulb, seed</p>



Science Vocabulary Progression



	<p><u>Working Scientifically Vocabulary (Year 3 and 4)</u></p> <p>Research – relevant, questions, scientific enquiry, comparative and fair test, systematic, careful observation, accurate, measurements,</p> <p>Equipment – thermometer, data logger</p> <p>Data – gather, record, classify, present</p> <p>Record – drawings, labelled diagrams, keys, bar charts, tables, oral and written explanations</p> <p>conclusion, predictions, difference, similarities, changes, evidence, improve, secondary sources, guides, keys, construct, interpret</p>					
<u>Year 3</u>	<u>Rocks and Soils</u>	<u>Magnets and Forces</u>	<u>Food and Our Bodies</u>	<u>Space</u>	<u>Light</u>	<u>Plants</u>
	<p>appearance, physical, properties, shiny/ dull, absorbent/ not absorbent, fossils</p> <p>sedimentary, rock, soils, organic matter, buildings, gravestones, grains, crystals</p>	<p>force, open, surface, attract, repel, magnetic poles, North, South</p>	<p>nutrition, nutrients, carbohydrates, protein, fats, fibre, water, vitamins, minerals, skeleton, bones, joints, endoskeleton, exoskeleton, hydrostatic, skeleton, vertebrate, invertebrate, contract, relax, muscles, ball joint, socket joint, hinge joint, gliding joint</p>		<p>see, reflect, surface natural, star, shadow, blocked, solid, artificial, torch, candle, lamp, sunlight, dangerous, protect eyes</p>	<p>Structure flowering plants, roots, trunk</p> <p>Function nutrition, support, makes its own food</p> <p>Requirements for life and growth air, light, water, nutrients from the soil, room to grow, needs vary, fertiliser</p> <p>Life cycle flowers, pollination, seed formation, seed dispersal</p>



Science Vocabulary Progression



<u>Year 4</u>	<u>States of Matter (water cycle)</u>	<u>Sound</u>	<u>Electricity</u>	<u>Teeth and Digestion</u>	<u>Living Things and their Habitats</u>	<u>Investigative unit- Science skills</u>
	solidify, iron, ice, melt, freeze, liquid, evaporate, condense, gas, container, changing state, heated, cooled, degrees Celsius, thermometer, water cycle, evaporation, condensation, temperature, melting, warm/ cool, water, water vapour	vibration, vibrating, air, medium, hear, sound, volume, pitch, faint, fainter, loud, louder, string, percussion, woodwind, brass, insulate	appliances, electricity, electrical circuit, cell, wire, bulb, buzzer, danger, electrical safety, sign Insulators wood, rubber, plastic, glass Conductors metal, water Switch open, closed	Human digestive system digestion, mixes, moistens, saliva, oesophagus, transports, acid, enzymes, small intestine – absorbs, vitamins, large intestine – compacts, colon Teeth incisors – cutting, slicing, canines – ripping, tearing, molars – chewing, grinding, floss, Food chain producers, prey, predators, vertebrate, dangers vertebrate invertebrate snails, slugs, worms, spiders, insects Plants flowering plants (including grasses), non-flowering	Animals, including humans – see Sp2.	



Science Vocabulary Progression



				(including mosses and ferns) Human impact Positive nature reserves, ecologically planned parks, garden ponds Negative Population, development, litter, deforestation		
<p><u>Working Scientifically Vocabulary (Year 5 and 6)</u></p> <p>plan, variables, measurements, accuracy, precision, repeat readings</p> <p>Record data – scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graph</p> <p>predictions, further comparative and fair test, report and present conclusions, causal relationships, explanations, degree of trust, oral and written display and presentation</p> <p>Evidence – support, refute ideas or arguments, identify, classify and describe patterns, systematic, quantitative, measurements</p>						
<u>Year 5</u>	<u>Super Scientists</u>	<u>Animals including Humans</u>	<u>Earth and Space</u>	<u>Forces</u>	<u>Living Things and Their Habitats</u>	<u>Properties and Changes of Materials</u>
	forensic, crime scene, investigation, evidence, DNA, database	puberty, gestation, growth, foetus, fertilisation, old age, life expectancy, adolescence, adulthood, early adulthood, middle adulthood, late adulthood, childhood	moons, solar system, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, rotate, Aristotle, Ptolemy, Galileo, Copernicus, Brahe, Alhazen, orbit, axis, spherical, heliocentric,	gravity, air resistance, water resistance, friction, surface, force, effect, move, accelerate, decelerate, stop, change direction, brake, mechanism, pulley, gear, spring,	Naturalists David Attenborough Behaviourist Jane Goodall Reproduction plants: sexual, asexual	properties, hardness, solubility, transparency, electrical conductor, thermal conductor, response to magnets, dissolve, solution, separate, separating, solids, liquids, gases,



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			geocentric, hemisphere, tilt	theory of gravitation, Galileo Galilei, Isaac Newton	animals: sexual Lifecycles around the world rainforest, oceans, desert prehistoric, similarities, differences	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
<u>Year 6</u>	<u>Light</u> straight, light source, object, mirrors, periscope, rainbow, filters, refract, refraction, prism, spectrum	<u>Evolution and Inheritance</u> evolution, adaptation, inherited traits, adaptive traits, natural selection, inheritance, Charles Darwin, Alfred Wallace, genes, variation, fossilisation	<u>Living Things and Their Habitats</u> classify, classification, domain, kingdom, class, order, family, genus, species, characteristics, microorganisms, organism	<u>Animals Including Humans</u> internal organs, liver, kidney, brain, skeletal, skeleton, muscular, circulatory system, blood vessels, blood, impact, diet, exercise, drugs, lifestyle, nutrients, damage, drugs, alcohol, substances		<u>Electricity</u> internal organs, liver, kidney, brain, skeletal, skeleton, muscular, circulatory system, blood vessels, blood, impact, diet, exercise, drugs, lifestyle, nutrients, damage, drugs, alcohol, substances