

Broad Square Primary School Tier 3 Vocabulary Progression - Science

Vocabulary progression - Working scientifically

Nursery & Reception	look closely, observe, watch, touch, feel, smell, listen, same, different, compare, ask questions, record, sort, group
Year 1 and 2	observe, changes, patterns, grouping, sorting, compare, same, different, identify (name), measure, data, record results, drawing, picture, table, tally chart, present, pictogram, block chart, Venn diagram, ask questions, test, investigate, explore, equipment, resources, magnifying glass, hand lens, ruler, tape measure, metre stick, pipette, syringe, spoon, teaspoon, answer questions, interpret results, scientific enquiry, pattern seeking, comparative testing, observing over time, classifying, researching using secondary sources
Year 3 and 4	practical work, fair testing, relationships, accurate, thermometer, data logger, stopwatch, timer, estimate, data, diagram, identification key, chart, bar chart, prediction, similarity, difference, evidence, information, findings, criteria, values, properties, characteristics, conclusion, explanation, reason, evaluate, improve
Year 5 and 6	variables, independent variable, dependent variable, control variable, evidence, justify, argument (science), causal relationship, accuracy, precision, scatter graphs, bar graphs, line graphs, force meter



Taken from PLAN science resources

Vocabulary progression – knowledge

EYFS	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Topic – All about me Head, nose, eyes, chin, cheek, hands, toes, ears, teeth, senses, germs.	Topic – Terrific tales Water soil, sunlight, properties of materials, seasonal changes.	Topic – Patterns and prints Material, metal wood glass paper stone rough smooth, shiny hard, soft colour mixing	Topic – Ticket to ride- People who help us Sinking and floating, push and pull, press roll, twist, healthy, unhealthy, heart rate, temperature exercise	Topic – Amazing animals farm animals, zoo animals, pets, mammals, insects, simple life cycles, hair, fur, scales, trunk (recap body parts)	Topic – Come outside Roots, stem, flower, leaf, seed, sun, protection, decay, mould, sun, earth, melting and freezing.
Reception	Topic – All about me Muscle, skeleton, nostril, ankle, wrist, waist, shoulders, elbow, five senses, gums cavities, germs	Topic – celebrations and autumn Hibernation, nocturnal, liquid, solid, melt, dissolve, seasonal, changes, light, dark, reflect, autumn, winter, summer spring	Topic- Terrific tales Materials, seed, stem, root, leaf, petal, growth, waterproof, strong, weak	Topic – People who help us Nutrition, healthy, unhealthy, exercise water, vitamin heart rate temperature, sweet, xray, recap on parts of body	Topic - Amazing animals Life cycle, mammal, insect, fish, fur scales snout hooves, young, puppy, kitten, kid, foal.	Topic - Holidays Decay mould explore heat earth planet, weather seasons, climate meltfreeze solid, liquid, gas

<p>Year 1</p>	<p>Topic - ourselves</p> <p>Head, body, eyes, ears, mouth, teeth, leg, , parts of the human body including those within the school's RSE policy, senses, touch, see, smell, taste, hear, fingers, skin, eyes, nose, ears, tongue</p>	<p>Topic - Animals</p> <p>Fish, amphibians, reptiles, birds and mammals carnivores, herbivores and omnivores tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves, names of animals experienced first-hand from each vertebrate group</p>	<p>Topic - Materials</p> <p>Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see through, not see through, opaque, transparent</p>	<p>Topic - Materials</p> <p>Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, opaque, transparent.</p>	<p>Topic - seasonal</p> <p>Summer, Spring, Autumn, Winter, Sun, Day, Moon, Night, Light, Dark, weather, sunny, rainy, windy, snowy etc, Seasons, sunrise, sunset, Day length</p>	<p>Topic - plants</p> <p>Deciduous, Evergreen trees, Leaves, Flowers (blossom), Petals, Fruit, Roots, Bulb, Seed, Trunk, Branches, Stem</p>
<p>Year 2</p>	<p>Topic - Living Things and their Habitats</p> <p>Living Classifying Basic needs Non- living Suited/ suitable Food chain</p>	<p>Topic - Living Things and their Habitats (2)</p> <p>Habitat Microhabitat Environment Shelter Basic needs MRS GREN Classifying Enquiry</p>	<p>Topic - Uses of Everyday Materials</p> <p>Properties Rough/smooth Flexible/rigid Strong/ weak Reflective/non-reflective Transparent/translucent/opaque Changing shape</p>	<p>Topic - Uses of Everyday Materials</p> <p>Investigation Enquiry Predict Results Conclusion</p>	<p>Topic - Animals including humans</p> <p>Survival Water Food Adult Baby Offspring Exercise Hygiene</p>	<p>Topic - Plants</p> <p>Seeds Bulbs Water Sunlight Temperature Growth Roots Absorb</p>

			Twisting, bending, stretching, squishing, pushing, pulling			
Year 3	Topic - Forces Force Contact Friction Push Pull Surface	Topic - Forces Force Contact Push Pull North South Surface Magnetic Attract Repel Poles	Topic - Animals including Humans Skeleton Bones Muscles Movement Support Nutrition Carbohydrate Protein Fat Vitamins and Minerals Vertebrates Invertebrates	Topic - Light and Shadows Light-source Mirror Reflect/-ive/-tion Shadow Blocked Transparent Translucent Opaque Natural Artificial	Topic - Rocks and Fossils Soil Organic matter Fossil Crystal Sandstone Granite Marble Pumice Absorbent Sediment/-ary Layer Igneous Magma Lava Gas Metamorphic	Topic - Plants Air Water Transportation Nutrients Reproduction Seed Formation Seed dispersal Pollination
Year 4	Topic - Electricity Appliance Battery Circuit Components Conductor	Topic - Sound Sound Source Vibrate Vibration Travel	Topic - States of Matter Solid Liquid Gas Change	Topic - States of Matter Solid Liquid Gas Change	Topic - Teeth and digestion Organ Teeth Salivary glands Tongue	Topic - Living things and their habitats Amphibians Birds Carnivores

	Electrical Insulator Mains power Portable Pylon Hydro-electric dams Solar panels	Amplitude High pitch Low pitch Volume Faint Loud Insulation	Condensation Evaporation Freeze Heat Precipitation Property Temperature Thermometer	Condensation Evaporation Freeze Heat Precipitation Property Temperature Thermometer	Oesophagus glands Stomach Liver Pancreas Small intestine Large intestine Rectum Anus	Characteristic Classification Ex
Year 5	Topic - Properties and changes of materials Materials, properties, sort, compare, electrical conductivity, insulation, magnetism, solubility, thermal, transparency, dissolve, solution, soluble, insoluble, filtration, particles, reversible, irreversible, variables		Topic - Animals including humans and living things and their habitats Mammal, reproduction, insect, amphibian, bird, offspring, asexual, sexual, growth, reproduction, foetus, embryo, womb, gestation, baby, toddler, teenager, elderly, growth, development, puberty,		Topic - Forces Gravity, force, air resistance, water resistance, upthrust, friction, gears, pulleys, levers	Topic -
Year 6	Topic - Straight lines, light rays, angles of incidence, angles of refraction, reflection, emitted, absence of light, laser, retina, pupil,	Topic - Circuit diagram, complete circuit, amps, volts, ammetre, voltmetre, electrons, cell, current, parallel, series,	Topic - Classification, species, ecosystem, variations, annelids, insects, crustaceans, molluscs,	Topic - Adaptation, natural selection, evolution, genes, chromosomes, genetics, genetic/physical traits, inheritance, heredity,	Topic -	Topic -

	colour spectrum, prism.			hereditary, ancestors.		
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