

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

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, soid, 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, sweat, 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 melt freeze 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</p>	<p>Topic - Uses of Everyday Materials</p> <p>Properties Rough/smooth Flexible/rigid Strong/ weak Reflective/non-reflective</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>

			Transparent/ translucent/ opaque Changing shape Twisting, bending, stretching, squishing, pushing, pulling	Transparent/ translucent/ opaque Changing shape Twisting, bending,		
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 - Plants Air Water Transportation Nutrients Reproduction Seed Formation Seed dispersal Pollination	Topic - Rocks and Fossils Soil Organic matter Fossil Crystal Sandstone Granite Marble Pumice Absorbent Sediment/-ary Layer Igneous Magma Lava Gas Metamorphic	Topic - Light and Shadows Light-source Mirror Reflect/-ive/-tion Shadow Blocked Transparent Translucent Opaque Natural Artificial

<p>Year 4</p>	<p>Topic - Electricity Appli- cence Battery Circuit Components Conductor Electrical Insulator Mains power Portable Pylon Hydro-electric dams Solar panels</p>	<p>Topic - Sound Sound Source Vibrate Vibration Travel Amplitude High pitch Low pitch Volume Faint Loud Insulation</p>	<p>Topic - States of Matter Solid Liquid Gas Change Condensation Evaporation Freeze Heat Precipitation Property Temperature Thermometer</p>	<p>Topic - States of Matter Solid Liquid Gas Change Condensation Evaporation Freeze Heat Precipitation Property Temperature Thermometer</p>	<p>Topic - Teeth and digestion Organ Teeth Salivary glands Tongue Oesophagus glands Stomach Liver Pancreas Small intestine Large intestine Rectum Anus</p>	<p>Topic - Living things and their habitats Amphibians Birds Carnivores Characteristic Classification Migrate Human impact</p>
<p>Year 5</p>	<p>Topic – Earth and space Sun, Moon, Earth, planets (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, Solar System, rotate, star, orbit</p>	<p>Topic - Forces Gravity, force, air resistance, water resistance, upthrust, friction, gears, pulleys, levers</p>	<p>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</p>	<p>Topic – Living things and their habitats life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, cuttings</p>	<p>Topic – Animals including humans reproduction, reproduce, offspring, growth, foetus, embryo, womb, gestation, baby, toddler, child, teenager, elderly, growth, development, puberty, puberty, the</p>	

<p>Year 6</p>	<p>Topic - Light Straight lines, light rays, angles of incidence, angles of refraction, reflection, emitted, absence of light, laser, retina, pupil, colour spectrum, prism.</p>	<p>Topic – Electricity Circuit diagram, complete circuit, amps, volts, ammetre, voltmetre, electrons, cell, current, parallel, series,</p>	<p>Topic – Living things and their habitats Classification, species, ecosystem, variations, annelids, insects, crustaceans, molluscs,</p>	<p>Topic – Evolution Adaptation, natural selection, evolution, genes, chromosomes, genetics, genetic/physical traits, inheritance, heredity, hereditary, ancestors.</p>	<p>Topic – Animals including humans heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, cycle, circulatory system, diet, drugs, lifestyle</p>	<p>Topic – Animals including humans heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, cycle, circulatory system, diet, drugs, lifestyle</p>
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