

The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

Year 1	Animals (Y1 Humans - Basic Structure and Senses)	Animals (Y1 Other Animals - Name, Identify and Basic structure)	Plants (Y1 - Common Names, Basic Structure and Links With Seasonal Change)	(Y1 - Everyday Materials)		Light and Astronomy - Y1 Seasonal Change	
	<p>Words linking to the senses: e.g. sense, eye, sight, see, ear, hearing, smell, nose, touch, feel</p> <p>Parts of the body for humans: arm, head, leg, body, etc.</p> <p>Comparative language: tall/taller/tallest, long/longer/longest, similar to, different from</p> <p>Describe, observe, compare</p> <p>Expressions making generalisations e.g. 'we all...'</p>	<p>Parts of the body for animals: head, leg, body, beak, wing, senses (eyes, ears, nose, mouth/mouth parts, hands/paws/claws/talons), etc.</p> <p>Features linked to movement e.g. fly, swim, crawl, run, climb, etc.</p> <p>Features linked to body covering e.g. feathers, fur, scales, colour, camouflage, etc.</p> <p>Common animal types: mammal, bird, fish, amphibians, reptiles</p> <p>Comparative language: tall/taller/tallest, long/longer/longest, similar to, different from</p> <p>Describe, observe, compare, because</p> <p>Expressions making generalisations e.g. 'most have...'</p>	<p>Labelling features: plant, seedling, tree, leaf, flower, blossom, petals, fruit, root, bulb, seed, stem, branch, twig, trunk.</p> <p>Common names for plants: e.g. daisy, dandelion, oak tree, etc</p> <p>Categories of plants: e.g. deciduous, evergreen, wild plant, indoor plant, herb, weed, vegetable/fruit/salad crop, etc.</p> <p>Words related to working scientifically: Compare (same, different), observe, describe, record, group, name/identify, change</p>	<p>Common materials: e.g. metal, plastic, wood, paper, glass, clay, rock, brick, fabric, sand, papers, cork, shell, water, elastic, foil</p> <p>Words used to describe materials and their properties e.g. hard/soft, rough/smooth, shiny/dull, bendy/not bendy, stretchy/stiff, waterproof/not waterproof, absorbent/not absorbent, magnetic, transparent, opaque, float, wet, squashy, strong.</p> <p>Words and phrases for making comparisons e.g. the same as, different from, harder, smoother, stretchiest, roughest, etc.</p> <p>Group, sort, sorting rings, describe, compare, because</p>		<p>Autumn, Winter, Spring, Summer, seasons</p> <p>Change, different, temperatures, clothes, activities, record, collect, measure</p> <p>Compare, describe, because</p>	

The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

Year 2	Health (Y2 Animals, Incl. Humans - How We Grow and Stay Healthy)	Y2 - Living Things And Their Habitats Including Life Cycles	Plants (Y2 - Growing Plants)	Material Properties (Y2 - Uses of Everyday Materials)			
	<p>Words relating to health e.g. diet, variety, germ, healthy/unhealthy, medicines, safety, packaging, exercise.</p>	<p>Animals, plants, habitat/micro-habitat, living/dead/never been alive, suited to, survive, basic needs, food chain, seashore, ocean, woodland, rainforest</p> <p>Expressions to describe location e.g. within, under, next</p> <p>Comparative phrases: smaller than, larger than, longer than, shorter than, more..., long, longer, longest, small, smaller, smallest, similar to, different from</p> <p>Expressions making generalisations e.g. 'most have...'</p>	<p>Words and phrases for making comparisons: e.g. tall/taller/tallest, long/longer/longest, like, similar to, different from, etc.</p> <p>Labelling features: root, stem, leaf, flower, seeds, seedlings, plants, branch, twig, trunk, and weed.</p> <p>Names for plants e.g. daisy, dandelion, oak tree</p> <p>Words and phrases relating to living and non-living things and life processes e.g. living, non-living, alive, not alive, dead, healthy, produce new plants, grow</p> <p>Compare, describe, because</p>	<p>Common materials: e.g. metal, plastic, wood, paper, glass, clay, rock, brick, fabric, sand, papers, cork, shell, water, elastic, foil</p> <p>Words used to describe materials and their properties recapped from Y1 unit e.g. hard/soft, rough/smooth, shiny/dull, bendy/not bendy, stretchy/stiff, waterproof/not waterproof, absorbent/not absorbent, magnetic, transparent, opaque, float, wet, squashy, strong/breaks easily, wobbly, sticky, uncomfortable</p> <p>Uses of materials, properties of materials</p> <p>Words and phrases for making comparisons e.g. the same as, different from, harder, smoother, stretchiest, roughest, etc.</p>			

The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

				Group, sort, sorting rings, describe, compare, because			
Year 3	Animals Including Humans (Y3 - Skeletons and Movement)	Y3 Forces and Magnets	Plants (Y3 - Functions of Plant Parts)	Material Properties (Y3 Rocks)	Health (Y3 Animals, Incl. Humans - Health and Nutrition)	Light and Astronomy (Y3 Light)	
	<p>Words relating to skeletons and muscles e.g. ribs, spine, skull, contract, relax, vertebrate</p> <p>Features of skeletons: movement, support, protection (organs)</p> <p>Words which have other meanings in other contexts e.g. relax</p> <p>Animal groups: vertebrates and invertebrates, insects, minibeasts, mammals, reptiles, fish, birds, amphibians</p>	<p>Move, movement: fly, bounce, slide, spin, roll, swirl, swing, forward, backward, upwards, downwards, faster, slower, accelerate, decelerate, ramp, incline</p> <p>push, pull, squeeze, springy, attract, repel, magnetic, non-magnetic, attraction, repulsion, names of common metals (e.g. iron, copper, aluminium), poles, horseshoe magnet, bar magnet, ring magnet, button magnet</p> <p>Stronger / weaker, best / worse</p>	<p>Flowering plant, root/roots, leaf/leaves, stem/trunk, flowers, pollen, transfer, pollination, seed formation, seed, fruit, seed dispersal (explosion, wind, water, animal), transported, insects/birds/animals</p> <p>Life cycle, growth, reproduce, air, light, water, nutrients, soil, room to grow, fertiliser</p> <p>Words to describe physical characteristics of plants e.g. yellow, pale, thin, spindly, features representing good growth</p> <p>Volume (liquids)</p>	<p>Words describing rocks e.g. rock, stone, pebble, slate, marble, chalk, granite, sand, sandstone, hard, texture, grains, crystals, contain fossils, bits pressed together, sedimentary.</p> <p>Words describing soils e.g. darker, lighter, organic matter, leaf litter, grains, clay, sandy, grains.</p> <p>Rub together, break apart/break up, permeable, non-permeable, acid rain, weathering, erosion.</p> <p>Comparison/compare, description/describe.</p>	<p>Food/feed/feeding, growth, activity, healthy, unhealthy, nutrition, exercise, choice, balanced diet, lifestyle, adequate and varied diet, the right types and amount of nutrients</p> <p>Food groups e.g. vegetables, meat, fish, sugars and starches, fruit, fats</p>	<p>see, seen, light source, eyes, travel, torch</p> <p>shadow, opaque, block</p> <p>reflect, reflection, mirror, direction</p> <p>light travels, straight lines,</p> <p>Comparisons e.g. shortest, highest, furthest, closest</p>	

The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

				Words which have different meanings in other contexts e.g. test, fair, conclude.	Words which have different meanings in other contexts e.g. diet, activity, evidence, conclusion		
Year 4		Y4 Sound	: Environment (Y4 - Living Things and Their Habitats)	Material Properties (Y4 - States of Matter)	Animals, Including Humans (Y4 - Teeth and Digestion)		Y4 Electricity
		Pitch, loudness, vibrate, vibration, muffle, tuning, quiet, soft, noise, sound, loudness, loud, volume, tension, tight, air, air column, muffle	<p>Words related to life processes e.g. nutrition, habitats and feeding</p> <p>Relationships e.g. habitat, condition, organism, predator, prey, producer, consumer, food chain, key, classify</p> <p>Words which have a different meaning in other contexts e.g. producer, consumer, key, condition</p> <p>Vertebrates and invertebrates, insects, minibeasts, mammals, reptiles, fish, birds, amphibians (these animal groups may be discussed here but the main focus of this key learning should be introduced in LKS2 'Animals' unit)</p>	<p>Solid, liquid, gas, property, change, temperature, change state, heated, cooled, temperature, degrees Celsius, water cycle</p> <p>condensation/condense, evaporation/evaporate, melting/melt, freezing/freeze, solidification/solidity, boiling temperature</p> <p>particle, air, carbon dioxide, oxygen, helium, natural gas, viscosity,</p> <p>States of matter</p> <p>Measure, compare, group, research, observe</p>	<p>Eat, chew, breakdown, saliva, swallow, feed, feeding, healthy, unhealthy, function, producer, predator, prey, dentist, toothpaste, dental care, hygienist</p> <p>Teeth, gums, incisor, molar, canine.</p> <p>Digestive system, mouth, tongue, oesophagus, stomach, small intestine,</p>		<p>cell (battery), wire, bulb, bulb holder, buzzer, motor, switch (open/closed), circuit, electrical conductor, electrical insulator,</p> <p>connection, component, break,</p> <p>devices, appliances, mains electricity, safety</p> <p>common materials e.g. metal, wood, plastic</p>

The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

					<p>large intestine, faeces.</p> <p>Words which have different meanings in other contexts e.g. diet, root, activity, decay, evidence, conclusion.</p> <p>Other words which might arise through discussion / research but are not essential: peristalsis, digestive juices, churn, energy, nutrients, absorbed, blood, liver, bladder, anus.</p>		<p>Expressions for making suggestions using 'if', 'might', 'could' connection, mains, wire, break</p> <p>Comparative expressions e.g. brighter, less bright (bulbs); faster, slower (motors)</p> <p>Note words which have a different meaning in other contexts e.g. circuit, break, bulb).</p>
Year 5	Animals including Humans (Y5 - Human Life Cycles)	Forces A (Y6 Friction, Air/Water Resistance, Gravity)	Y5 Living Things and Their Habitats - Life Cycles and Reproduction	Material Changes (Y5 Reversible and Irreversible Changes)	Material Properties (Y5 Testing Material Properties)	Light and Astronomy (Y5 Earth and Space)	
	Changes, develop/development, grow/growth, baby,	Friction, air resistance, water resistance, forcemeter, Newtons,	Mammals, amphibians, reptiles and plants	Dissolved, undissolved, solution, mixture, filter, sieve,	Words describing the characteristic	Sphere/spherical, revolve, orbit, spin, rotate, axis, sunrise,	

The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

	<p>toddler, young, teenager, adult, old age, timeline, stages, puberty, gestation periods, compare</p>	<p>surface area, gravity, movement, between surfaces</p>	<p>Live young/eggs, gestation/incubation period, grow, metamorphosis, internal/external sexual reproduction, parental care/no parental care</p> <p>Flowering and non-flowering plants, classifying, classification</p> <p>Reproduction/reproduce, fertilisation/fertilise, germination/germinate, pollination/pollinate,</p> <p>Stamen, style, stigma, sepal, petal, ovary, pollen,</p> <p>Adapted,</p> <p>Flowering and non-flowering plants</p> <p>Similarities and differences</p> <p>Observe over time</p>	<p>evaporate, condense, melting, separate, reversible, irreversible, reaction, product, material, powder, substance, acid, change, burning, rusting</p> <p>Words and phrases related to data handling e.g. bar line graph, line graph, average, accurate</p>	<p>s of materials e.g. strong, hard, flexible, absorbent, transparent, thermal conductor, thermal insulator</p> <p>Words and phrases related to warmth and cold e.g. temperature, thermometer, degrees Celsius</p> <p>Words related to the investigation of these properties e.g. investigate, test, describe, explain, comparison, fair, conclude, evidence</p> <p>Comparison/compare, description/describe</p>	<p>sunset, north, south, east, west, rotate around, rotate on its axis</p> <p>Solar system, Sun, Moon, star, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, planet</p> <p>Sundial, shadow clock</p> <p>Model, compare, evidence</p>	
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The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

					<p>Words which have different meanings in other contexts e.g. test, fair, conclude</p> <p>Words associated with rocks: slate, marble, chalk, granite, sand, sandstone, clay, rock, stone, pebble, texture, absorbent, particles, permeable, non-permeable, acid rain</p>		
Year 6	Animals including Humans (Y6 - Circulatory System and Exercise)	Forces B (Y6 - Pulleys, Levers, Gears and Simple Machines)	Y6 - Evolution and Inheritance	Y6 Living Things & Their Habitats - Classifying plants and animals	(Y6 - Animals Including, Humans, Keeping Healthy - Diet and Lifestyle)	Light and Astronomy (Y6 Light)	Y6 Electricity
	Heart, heartbeat, pulse, pulse rate, muscle, blood vessel, blood, lung, oxygen, carbon dioxide, circulate, circulatory system, organ	Push, pull, friction, air resistance, water resistance, magnetic forces, gravity, newton, force-meter Direction arrows, size arrows, balanced,	Evolution, change over time, species, population, features, trait, inherited, reproduce, offspring, variation, mutation, survive/survival/survival of the fittest, adaptation	Sort, group, identify, classify, environment, suited, classification system, key, habitat	Food types: fats, sugars, starches, protein, carbohydrate, protein, vitamins and minerals.	see, seen, light source, eyes, travel shadow, opaque, block reflect, reflection, mirror, direction	cell (battery), wire, bulb, bulb holder, buzzer, motor, switch (open/closed), complete circuit, electrical

The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

	<p>Diet, exercise, drugs, lifestyle, body function, harmful, healthy, damaged, nutrients, water, transported, substances</p>	<p>unbalanced, force diagram, effect of a force</p> <p>Move, speed up, faster, accelerate, slow down, slower, decelerate, stop, still, stationary, at rest, not moving</p>	<p>Consumer, producer, predator, prey, food chain, consumer, producer, key, suited</p>		<p>Tobacco, drugs, alcohol.</p> <p>Balanced diet, side effect, harmful effect.</p>	<p>light travelling, light beam, straight lines,</p> <p>cast, periscope, rear-view mirror, object, shadow puppet, rainbow, colours, bend, split</p>	<p>conductor, electrical insulator, component, circuit symbol, circuit diagram, standard symbols, voltage</p> <p>connection, component, break, fault</p> <p>devices, appliances, mains electricity, safety</p> <p>common materials e.g. metal, wood, plastic</p> <p>Expressions for making suggestions using 'if', 'might', 'could'</p> <p>connection, mains, wire, break</p> <p>Comparative expressions e.g. brighter,</p>
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The Cathedral School St Peter and St John R.C Primary – Scientific Vocabulary

							<p>less bright (bulbs); faster, slower (motors)</p> <p>Note words which have a different meaning in other contexts e.g. circuit, break, bulb, fault).</p>
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