



Rothwell Schools

Vocabulary progression for Science by National Curriculum Themes

Animals and Humans (including healthy lifestyles)

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>egg, chick, bird, caterpillar, cocoon, chrysalis, butterfly, frog spawn, tadpole, froglet, frog, grow, change, die, names of animals and their young (Nursery - Animals, excluding humans)</p> <p>Head, Neck, Shoulders, Arms, Hands, Stomach, Legs, Feet,</p>	<p>Wrist, Ankle, Waist, Hips, Elbow, Jaw, Skull, Ribcage, Spine, Fish, Amphibian, Reptile, Bird, Mammal, Carnivores, Herbivores, Omnivore</p>	<p>Adult, Young, Offspring, Water, Food, Air, Warmth, Shelter, Exercise, Diet, Pulse, Baby, Toddler, Child, Teenager, Elderly</p>	<p>Nutrients, nutrition, carbohydrates, protein, fats, vitamins, minerals, water, fibre,</p>	<p>herbivore, carnivore, omnivore, producer, consumer, predator, prey (Y4 - Animals, including humans)</p>	<p>Digestive system, tongue, mouth, teeth, oesophagus, stomach, gall bladder, small intestine, pancreas, large intestine, liver, Foetus, Embryo, Womb, Gestation, Baby, Toddler, Teenager, Elderly, Growth, Development, Puberty Study</p> <p>fish, amphibians, reptiles, mammals, invertebrate, human impact, nature reserves, deforestation.</p>	<p>offspring, sexual reproduction, vary, characteristics, adapted, inherited, species, evolve, evolution Variation Organisms Populations. Classification Characteristics</p> <p>Circulatory system, heart, lungs, blood vessels, blood, artery, vein, pulmonary, alveoli, capillary, digestive, transport, gas exchange, villi, nutrients, water, oxygen, alcohol, drugs, tobacco.</p>

Habitats and food chains

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>natural, plant, animal, leaves, seeds, conkers, acorns, twigs, bark, shells, feathers, pebbles, stones, same, different, pattern (Nursery - Living things and their habitats)</p> <p>plant, tree, bush, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment (e.g. beach, forest) (Reception - Living things and their habitats)</p>		<p>living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed, water, air, survive, survival, conditions, light, dark, shady, sunny, wet, damp, dry, hot, cold (Y2 - Living things and their habitats)</p>		<p>environment, habitat, human impact, positive, negative, migrate, hibernate (Y4 - Living things and their habitats)</p>	<p>life cycle, reproduce, sexual, fertilises, asexual, plantlets, runners, tubers, cuttings (Y5 - Living things and their habitats)</p>	

Plants

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>grow, shoot, die, dead (Nursery - Plants) Trees, Flowers, Animals, Natural, Care, Respect, Grow</p>	<p>leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud (Y1 - Plants)</p> <p>Tulip, Daffodil, Rose, Bluebell, Daisy, Ash, Beech, Birch, Maple, Oak, Deciduous, Evergreen, Flower, Leaf, Stem, Root, Crown, Twig, Branch, Trunk</p>	<p>light, shade, Sun, warm, cool, water, space, grow, healthy, bulb, germinate, shoot, seedling (Y2 - Plants)</p> <p>Seed, Bulb, Germination, Grow, Lifecycle, Dispersal, Optimum</p>	<p>photosynthesis, pollen, insect/wind pollination, male, female, seed formation, seed dispersal (e.g. wind dispersal, animal dispersal, water dispersal), air, nutrients, minerals, soil (Y3 - Plants)</p> <p>Air, Light, Water, Nutrients, Soil, Reproduction, Transportation, Flower. Energy Growth Carbon dioxide Oxygen Sugar material</p>	<p><i>Environment, flowering, non-flowering, plants,</i></p>	<p>life cycle, reproduce, sexual, fertilises, asexual, plantlets, runners, tubers, cuttings (Y5 - Living things and their habitats) reproduction, cell, fertilisation, pollination,</p>	

Light

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p>light, torch, bulb, lamp, spotlight, shiny, bright, brighter, brightest, Sun, shine, glow, mirror (nursery)</p> <p>Sun, sunny, light, shadow, shady, clouds, torch, see-through, not see-through, source, light source (reception)</p>	<p>senses, see, eyes (Y1 - Animals, including humans) shiny, dull, see-through, not see-through (Y1 - Materials)</p>	<p>opaque, transparent, translucent, reflective, non-reflective (Y2 - Uses of everyday materials)</p>	<p>light, light source, dark, absence of light, surface, shadow, reflect, mirror, Sun, sunlight, dangerous</p>			<p>straight lines, light rays, electromagnetic spectrum, refraction, reflection,</p>

Everyday Materials

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>mix, stir, cook, hot, oven, microwave, change, burn, melt, hard, runny, set, freeze, freezer, cold, blended, hard, soft, bendy, stiff, wobbly, wood, plastic, paper, card, fabric (nursery) Appearance, Texture, natural, shells, pebbles, stones ice, water, frozen, icicle, snow, melt, wet, cold, slippery smooth, big, bigger, biggest, smaller, smallest, bendy, rigid, wood, plastic, paper, card, metal, strong, weak, hot, apply heat, waterproof, soggy, not waterproof, best, change, change back (reception)</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 Properties, Wood, Plastic, Glass, Metal, Water, Rock, Hard, Soft, Stretchy, Stiff, Shiny, Dull, Rough, Smooth, Bendy, Waterproof, Absorbent, Transparent, Opaque, Strong, Shiny, Bendy, Runny, Wet.</p>	<p>opaque, transparent, translucent, reflective, non-reflective, flexible, rigid, shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching Wood, Plastic, Glass, Metal, Water, Rock, Suitable, Unsuitable, Permanent, Squash, Twist, Turn, Stretch, reversible, irreversible.</p>	<p>rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorbs water, fossil, bone, flesh, minerals, marble, chalk, granite, sandstone, slate, types of soil (e.g. peaty, sandy, chalky, clay) (Y3 - Rocks) magnetic force, magnet, attract, magnetic material, metal, iron, steel (Y3 - Forces and magnets) Rocks, igneous, metamorphic, sedimentary, anthropic, permeable, impermeable, chemical fossil, body fossil, trace fossil, Mary Anning, cast fossil, mould fossil, replacement fossil, extinct, organic matter, topsoil, sub soil, base rock.</p>	<p>solid, liquid, gas, heating, cooling, state change, melting, freezing, melting point, boiling, boiling point, evaporation, condensation, temperature, water cycle electrical conductor, electrical insulator, metal, non-metal (Y4 - Electricity) Solid, liquid, gas, particles, state, materials, properties, matter, melt, freeze, water, ice, temperature, process, condensation, evaporation, water vapour, energy, precipitation, collection,</p>	<p>thermal insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve, reversible/non-reversible change, burning, rusting, new material Hardness, Solubility, Transparency, Conductivity, Magnetic, Filter, Evaporation, Dissolving, Mixing Material, conductor, dissolve, insoluble, suspension, chemical, physical, irreversible, solution, reversible, separate, mixture, insulator, transparent, flexible, permeable, soluble, property, magnetic, hard.</p>	

Electricity

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
battery, plug, socket, electricity, wire, sound, light, move (nursery)				electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol		circuit diagram, circuit symbol, voltage, voltmeter, series,

Sound

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>sound, noise, loud, quiet, high, low, music, bang, blow, pluck, soft, hard, fast, slow, names of instruments (nursery)</p> <p>sound, noise, listen, hear, music, voices, bird song, traffic, sirens, thunder, high, low, loud, quiet, soft, volume, crackle, thunder, hum, buzz, roar (reception)</p>	senses, hear, ear (Y1 - Animals, including humans)			sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, quiet, loud, insulation, sound wave, frequency,		





Earth and Space





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Sun, Moon, Earth, star, planet, sky, day, night, space, round, bounce, float			<i>light, light source, Sun, sunlight, dangerous (Y3 - Light)</i>		<i>Sun, Moon, Earth, planets (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, Solar System, rotate, star, orbit, moon phases,</i>	

Forces

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>object, float, sink, water, up, down, top, bottom, push, pull, magnet, spring, squash, bend, twist, stretch, turn, spin, smooth, rough, fast, slow (nursery)</p> <p>float, sink, up, down, top, bottom, surface, move, roll, drop, fly, turn, spin, fall, fast, slow, faster, slower, fastest, slowest, further, furthest, wind, air, water, blow, bounce (reception)</p>		<p>flexible, rigid, shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching (Y2 - Uses of everyday materials)</p>	<p>force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic field and material, metal, iron, steel, poles, north pole, south pole</p> <p>friction, surface, compass.</p>		<p>force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears</p> <p>Gravity, Newton, Gears, Pulleys, force, push, pull, opposing, streamline, brake, mechanism, lever, cog, machine, pulley.</p>	

Scientific Skills

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Investigation  	touch, feel, smell, listen,	test, investigate, explore, Prediction, expected & unexpected result, investigation, experiment, change, question, planning	equipment, resources, magnifying glass, hand lens, pipette, syringe, spoon, teaspoon, comparative testing, researching using secondary sources Conclusion, evidence, method, data, comparative test	practical work, prediction, Hypothesis, reasoning, variables linked with fair test including independent /dependent & controlled variables, enquiry, accuracy	fair testing, criteria, values, properties, characteristics, Limitations	variables, Choosing independent/dependent /Controlled variables	independent variable, dependent variable, control variable Accuracy v precision, anomaly, uncertainty
Observation 	look closely, observe, watch,	observe, changes	Patterns, identify (name), observing over time, classifying, draw conclusions, systematic, keys, annotate classification,	relationships, similarity, difference,	identification key,		
Gather and Record Data 	record, sort, group	grouping, sorting,	compare, same, different, data, record results, tables – change and measure,	estimate, data,		evidence,	

Questioning 	ask questions	ask questions,	ask questions, answer questions,				
Measurement 			measure, ruler, tape measure, metre stick,	thermometer, stopwatch, timer,	data logger,	force meter	
Report and Conclude  	same, different, compare, Differences, expected, sensible guess,	drawing, picture, table, Similarities, improvements, estimate, conclusion, fair, unfair, recognizing patterns	tally chart, present, pictogram, block chart, Venn diagram, interpret results, scientific enquiry, pattern seeking, communicate findings, audience Finding the odd one out from the pattern, compare, evaluate,	accurate, diagram, chart, bar chart, evidence, information, findings,	conclusion, explanation, reason, evaluate, improve bar graphs, Analyse, improvements, refine, reject, hypothesis, alter	scatter graphs, line graphs, Anomaly, repeat to refine and prove, justify	justify, argument (science), causal relationship, accuracy, precision, Refute/support, relationships