



Believe

Embrace

Shine

Together 'I can do all things through Christ who strengthens me.' Philippians 4:13

Rattlesden C of E Primary Academy

Vocabulary Progression - Science

EYFS	Year 1	Year 2
Working Scientifically (KS1)		
Science, experiment, find out, explain, reason, why, change, observe.	question, answer, observe observing, equipment, identify, classify, sort, group, record – diagram, chart, map data, compare, contrast, describe. prediction, table	
Animals (EYFS)	Animals including humans (KS1)	

<p><u>Model and encourage children to use vocabulary such as:</u> (Non Humans) <u>ALL:</u> live, on land, in water, jungle, desert, North Pole, South Pole, sea, hot, cold, wet, dry, snow, ice.</p> <p>Also, exposure to the names of various animals.</p> <p><u>SOME:</u> environment, polar regions, ocean, camouflage.</p> <p>For Humans: Model and encourage children to use vocabulary such as: <u>ALL:</u> hair (black, brown, dark, light, blonde, ginger, grey, white, long, short, straight, curly), eyes (blue, brown, green, grey), skin (black, brown, white), big/tall, small/short, bigger/smaller, baby, toddler, child, adult, old person, old, young, brother, sister, mother, father, aunt, uncle, grandmother, grandfather, cousin, friend, family, boy, girl, man, woman</p> <p><u>SOME:</u> Expose to vocabulary such as:</p>	<p><u>ALL:</u> Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves. Senses: touch, sight, smell, taste, hearing. Fingers, skin, eyes, nose, ear and tongue. Birds, fish, mammals</p> <p><u>SOME:</u> amphibians, reptiles, carnivore, herbivore, omnivore.</p>	<p>As previous years plus: <u>ALL:</u> Offspring, reproduction, growth, child, adult, young. young/old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly),</p> <p>Diet, exercise, heartbeat, breathing, hygiene, germs, disease,</p> <p>food types (examples – meat, fish, vegetables, bread, rice, pasta)</p> <p><u>SOME:</u> Develop, live young, de-hydrate, energy, nutrition, pulse,</p>
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bald, elderly, wrinkles, male, female, freckles.		
Materials		
<p><u>Model and encourage children to use vocabulary such as:</u> <u>ALL:</u> ice, water, frozen, icicle, snow, melt, wet, cold, slippery, smooth, big, bigger, biggest, smaller, smaller, smallest, hard, soft, bendy, rigid, wood, plastic, paper, card, metal, strong, weak, hot, apply heat, waterproof, soggy, not waterproof, best, change, change back</p> <p><u>SOME:</u> expose to supplementary vocabulary such as: solid, liquid, gas, most suited</p>	<p><u>ALL:</u> 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</p> <p><u>SOME:</u> Transparent, opaque.</p>	<p>As previous years plus:</p> <p><u>ALL:</u> properties, opaque, transparent, translucent, reflective, nonreflective, rigid. shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching</p> <p><u>SOME:</u> Suitability, flexible</p>
Seasonal changes		
<p><u>Model and encourage children to use vocabulary such as:</u> <u>ALL:</u> spring, summer, autumn, winter, seasons, sunny, cloudy, hot, warm, cold, shower, raining, storm, thunder, lightning, hail, sleet, snow, icy, frost, puddles, windy, rainbow, animals, young, plants, flowers</p>	<p><u>ALL:</u> Weather, sunny, rainy, windy, snowy, foggy (etc.)</p> <p>Seasons, winter, summer, spring, autumn.</p> <p>Sun, sunrise, sunset, day length</p> <p><u>SOME:</u></p>	<p>As previous year:</p> <p><u>ALL:</u> daylight, January, February, March, April, May, June, July, August, September, October, November, December.</p>

<p><u>SOME</u>: expose to supplementary vocabulary such as:</p> <p>hibernate, migrate, snowflake</p>	<p>daylight, January, February, March, April, May, June, July, August, September, October, November, December.</p>	
Living things and their habitats		
		<p><u>ALL</u>: living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed</p> <p>Names of local habitats e.g. pond, woodland etc.</p> <p>Names of micro-habitats e.g. under logs, in bushes etc.</p> <p><u>SOME</u>: food sources, life processes, survive.</p>
Plants		
<p><u>Model and encourage children to use vocabulary such as:</u></p> <p><u>ALL</u>: plant, tree, bush, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment e.g. beach, forest.</p> <p><u>SOME</u>: Expose to supplementary vocabulary such as:</p>	<p><u>ALL</u>: leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud, weed, bulb, bean.</p> <p>Names of trees in the local area.</p>	<p>As previous year plus</p> <p><u>ALL</u>: sunlight, shade, sun, warm, cool, water, grow, healthy, shoot, temperature</p> <p><u>SOME</u>: germination, nutrients,</p>

environment.	Names of garden and wild flowering plants in the local area. <u>SOME:</u> evergreen, deciduous	Dormant, sprout,
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Light (EYFS)
<p><u>Model and encourage children to use vocabulary such as:</u></p> <p><u>ALL:</u> Sun, sunny, light, shadow, shady, clouds, torch, see-through, non-see through, source, light source</p> <p><u>SOME:</u> Expose children to supplementary vocabulary such as: casting a shadow, pale, dark, transparent, opaque</p>

Sound (EYFS)

Model and encourage children to use vocabulary such as:

ALL: sound, noise, listen, hear, music, voices, bird song, traffic, sirens, thunder, high, low, loud, quiet, soft, volume, crackle, thunder, hum, buzz, roar

SOME: Expose to supplementary vocabulary such as:
source, crescendo, vibration, pitch

Forces (EYFS)

Model and encourage children to use vocabulary such as:

ALL: 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

SOME: Expose to supplementary vocabulary such as:
force, rotate, solid, liquid, gravity .

Earth and Space (EYFS)

Model and encourage children to use vocabulary such as:

ALL: Sun, Moon, Earth, star, planet, sky, day, night, space, round, light, heavy, fall, bounce, float, rise, fall, air

SOME: Expose to supplementary vocabulary such as:
sunrise, sunset, astronaut, astronomer, constellation, orbit, nocturnal, slow-motion, magnify

Year 3	Year 4	Year 5	Year 6
Working Scientifically (LKS2 & UKS2)			
<p>As previous year plus: research – relevant questions, scientific enquiry, comparative and fair test, systematic, careful observation, accurate measurements equipment – thermometer, data logger data – gather, record, classify, present record – drawings, labelled diagrams, keys, bar charts, tables. Oral and written explanations, conclusion</p>		<p>As previous years plus: Plan, variables, measurements, accuracy, precision, repeat readings Record data – scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graphs. Predications, further comparative and fair tests.</p>	

<p>predictions.differences, similarities, changes, evidence, improve, secondary sources, guides, keys, construct and interpret.</p>	<p>Report and present – conclusions, casual relationships, explanations, degree of trust, oral and written display and presentation.</p> <p>Evidence – support, refute ideas or arguments.</p> <p>Identify, classify and describe patterns and systematic.</p>		
<p>Plants</p>			
<p>As previous year plus: <u>ALL</u> Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal (wind dispersal, animal dispersal, water dispersal), pollinator, pollination <u>SOME</u> Fertilisation, stamen, filament, anther, carpel, stigma, style, sepal, ovary, ovule.</p>		<p>No coverage in year 6</p>	
<p>Animals including humans</p>			
<p>As previous year plus: Nutrition, nutrients, healthy, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, joints,</p>	<p>As previous years plus: Digestive system, digestion, mouth, teeth, saliva, esophagus, stomach, small intestine, nutrients, large</p>	<p>As previous years plus: <u>ALL</u>: fertilisation, reproduce, sexual reproduction, life cycle, adolescence, puberty, adulthood, life expectancy.</p>	<p>As previous years plus: <u>ALL</u>: Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle,</p>

<p>support, protect, move, skull, ribs, spine.</p> <p><u>SOME:</u> Saturated fats, unsaturated fats, minerals, vertebrate, invertebrate, endoskeleton, exoskeleton.</p>	<p>intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain.</p>	<p><u>SOME:</u> gestation, asexual reproduction, menstruation, prenatal.</p>	<p>circulatory system, diet, exercise, drugs, lifestyle.</p> <p><u>SOME:</u> oxygenated blood, deoxygenated blood, plasma, platelets.</p>
Rocks			
<p><u>ALL:</u> Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil.</p> <p><u>SOME:</u> igneous rock, sedimentary rock, metamorphic rock, magma, lava, sediment, permeable, impermeable, permeates, fossilisation, palaeontology, erosion, erodes.</p>		<p>No coverage in year 6</p>	
Light			
<p><u>ALL</u> Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous, ray, pupil, retina.</p>		<p>As previous years plus: <u>ALL:</u> straight lines, light rays, reflection, refraction, prism</p>	

<u>SOME:</u>		<u>SOME:</u> incident ray, reflected ray, the law of reflection, visible spectrum.	
Forces including magnets			
<u>ALL:</u> Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole. <u>SOME:</u> Magnetic field, friction	As previous years plus: <u>ALL:</u> gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears, magnetic field. <u>SOME:</u> weight, mass, streamlined, buoyancy, upthrust.	No coverage in year 6	
Living things and habitats			
	Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate.	As previous years plus: <u>ALL:</u> Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis,	As previous years plus: <u>ALL:</u> gestation, vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects,

		<p>pollination, asexual, plantlets, runners, bulbs, cuttings.</p> <p><u>SOME</u>: gestation</p>	<p>spiders, snails, worms, flowering, non-flowering, microscope, species</p> <p><u>SOME</u>: Characteristics, taxonomy, bacteria, microorganism.,</p>
States of matter			
<p><u>ALL</u>: Solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water cycle.</p> <p><u>SOME</u>: Water vapour, condense, precipitation, condensation.</p>		<p>No coverage in year 6</p>	
Sound			
<p><u>ALL</u>: Sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation, eardrum, sound proof, distance</p> <p><u>SOME</u>: Amplitude, vacuum, particles</p>		<p>No coverage in year 6</p>	
Electricity			
<p><u>ALL</u>: Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative,</p>		<p>As previous years plus: <u>All</u>: Amps, voltage, electrons, resistance. <u>SOME</u> (from KS3):</p>	

<p>connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol, current</p> <p><u>SOME</u> Amps, voltage, electrons, resistance.</p>	<p>Ohms, amperes, series circuit, parallel circuit</p>	
Properties and changes in materials		
<p><u>ALL:</u> (See states of matter above too) Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve, reversible/ non-reversible change, burning, rusting, new material.</p> <p><u>SOME:</u> transparency, conductivity.</p>	<p>No coverage in year 6</p>	
Earth and Space		
<p><u>ALL:</u> Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, solar system, rotates, star, orbit, planets, axis, rotate, astronomer.</p> <p><u>SOME:</u> spherical body, celestial body, satellite, geocentric model, heliocentric model,</p>	<p>No coverage in year 6</p>	
Evolution and inheritance (Year 6 Only)		
		<p><u>All:</u> Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment,</p>

			<p>inherited, species, fossils, evolution.</p> <p><u>SOME</u>: variations, habitat, adaptation, natural selections, adaptive traits, inherited traits.</p>
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