

Tenbury Primary Academy Progression in Science Vocabulary (in line with Collins Science resources)

NC strands in colour. Collins Unit names in (*bold, italic*).

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Working Scientifically ideas, ask, answer, describe, name, find out, why, explain</p>	<p>Working Scientifically question, answer, observe, observing, equipment, identify, sort, group, classify, compare, differences, similarities, patterns, describe, measurements, test, results, record - diagram, chart, table</p>		<p>Working Scientifically oral and written explanations, conclusion, predictions, criteria, compare, fair tests, changes, data, contrast, evidence, improve, secondary sources, guides, keys, construct, interpret, research - relevant question equipment - thermometer, data logger data - gather, standard units, record, classify, present, measurements record --drawings, labelled diagrams, keys, bar charts, tables</p>		<p>Working Scientifically plan, variables, measurements, accuracy, precision, repeat readings, predictions, further comparative and fair test, identify, classify and describe, patterns, systematic, quantitative measurements report data -scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graphs report and present - conclusions, casual relationships, explanations, degree of trust, oral and written display and presentation evidence - support, refute, ideas or arguments</p>	
<p>Animals including Humans Five senses Healthy Eating Growing-animals</p> <p>smell, feel, see, hear, taste.</p> <p>food, healthy, human, babies, adult, teeth, face, hair, leg, knee, arm, elbow, back, head, toes, ears, hands, eyes, fingers, mouth, nose, sleep</p> <p>animal, fish, bird, babies, young</p>	<p>Animals including Humans <i>(Looking at animals)</i> Our Changing World-Animal Antics)</p> <p>fish, amphibians, reptiles, birds and mammals, carnivores, herbivores and omnivores head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves</p> <p>Using our senses body, head, neck, shoulders, arms, elbows, hands, fingers, legs, knees, feet, face, skin, ears, eyes, nose, nostrils, hair, mouth, teeth, senses, taste</p>	<p>Animals including Humans <i>(Take care and Growing up)</i></p> <p>offspring, growth, child, adult, young/old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), exercise, food, milk, water, drink, eat, air, breathe, shelter, warmth, survival, depend, food types (examples – meat, fish, vegetables, bread, rice, pasta</p>	<p>Animals including Humans <i>(Amazing bodies)</i></p> <p>nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints</p>	<p>Animals including Humans <i>(Where does all that food go?)</i></p> <p>digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain</p>	<p>Animals including Humans (Reproduction in plants and animals)</p> <p>life cycle, birth, growth, reproduction, metamorphosis, aging, death, mammal, reptile, bird, amphibian, fish,</p>	<p>Animals including Humans (Body health Body pump)</p> <p>heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs and lifestyle</p> <p>Evolution and Inheritance (Everything Changes)</p> <p>Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils</p>

	hearing, touch smell, sight,					Changing World (climate change) mammal, amphibian, insect, bird, metamorphosis migrate hibernate courtship habitat adaptation behaviour
Plants Growing- plants tree, fruit, branch, roots, leaves, flowers, seed,	Plants (Plant Detectives) (Our Changing World - Plants) leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud	Plants (The Apprentice Gardner) light, shade, sun, warm, cool, water, grow, healthy, germinate, seedling	Plants (How does your garden grow?) plant, roots, stem, trunk, leaf/leaves, flower, leaflet, stalk, veins, surface, edge, lobes, tip, food, root hair, nutrients, anchor, support, seed, germination, seedling, growth, flowering, pollination, seed formation, bud, petal, sepal, carpel, stamen, pollen, reproduce, nectar, seed, fruit, dispersal, animal, wind, water, stigma, style, ovary, anther, filament,		Plants (Reproduction in plants and animals) reproduction, sexual, asexual, plantlets, cuttings Our Changing World- flower, carpel, stamen, pollen, seed, seed head, berry, hip, fruit, pollinator, pollination, fertilise, fertilisation, seed dispersal, male, female, organs,	
		Living things and their habitats (What is in your habitat?) living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed, names of local	Our Changing world leaf, deciduous, evergreen, berries, variety	Living things and their habitats (Who am I? Human impact) classification, classification keys, environment, habitat, human impact, positive,	Living things and their habitats (Circle of Life) life cycle, birth, growth, reproduction, metamorphosis, aging, death, animal, mammal, amphibian, insect	Living things and their habitats (The Nature Library) classification organism micro-organism Plant kingdom Animal kingdom

		habitats e.g. pond, woodland etc., names of micro-habitats e.g. under logs, in bushes etc.		negative, migrate, hibernate Our Changing World stalk, simple and compound leaves, leaf edge, leaf shape, leaf arrangement, deciduous, evergreen, bud, twig, tree shape, leaf skeleton, vein pattern, seed, flower, blossom, petal, classification key		Micro-organisms: (3 kingdoms: Fungi, Monera, Protista),
Seasonal Changes Summer, Autumn, Spring, Winter. day, dark, light, night, season moon, sun Light and dark Colours colour names, rainbow	Seasonal Changes (Our Changing World-Sensing Seasons) weather (sunny, rainy, windy, snowy etc.), seasons (Winter, Summer, Spring, Autumn), sun, sunrise, sunset, year, day length, night, monsoon, thunderstorm		Light (Can you see me?) light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight,	Sound (Good Vibrations) sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation	Earth and Space (The Earth and Beyond) Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune) spherical, solar system, rotates, star, orbit, planets	Light (Light up your world!) straight lines, light rays, refraction, periscope, spectrum, dispersion
Forces Push/Pull Cogs and wheels Floating and Sinking push, pull, strong, weak			Forces and magnets (The Power of Forces) 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		Forces (Feel the Force) force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears, Newton, Newton meter, pinion, pivot, pull, rotary motion, unbalanced force, upthrust	

<p>Materials metal, wood, rock, paper, glass, plastic, hard, soft, smooth, shiny, rough, hard</p>	<p>Everyday Materials 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>Materials and their uses <i>(Shaping Up Good Choices)</i> opaque, transparent and translucent, reflective, non-reflective, flexible, rigid, shape, push/pushing, pull/puling, twist/twisting, squash/squashing. Bend/bending, stretch/stretching</p>	<p>Rocks <i>(Rock Detectives)</i> 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>States of Matter <i>(In a State)</i> solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water cycle</p>	<p>Properties and changes of materials <i>(All change! Marvellous mixtures!)</i> thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve reversible/non-reversible change, burning, rusting, new material</p>	
				<p>Electricity <i>(Switched On!)</i> 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 electrical conductor, electrical insulator</p>		<p>Electricity <i>(Danger! Low Voltage!)</i> terminal, switches, reed, series circuit, resistance, resistor, current, diagram, generate, generator, coal, gas, oil, fossil fuels, nuclear, biomass fired power stations, wind turbine, wave hub, tidal flow, hydro-electric, grid, pylon, transmission, transformer, solar panels</p>