Manor Primary School
Progression of Key Scientific Vocabulary

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals including Humans fish, reptiles, mammals, birds, amphibians, herbivore, omnivore, carnivore, leg, arm, elbow, head, ear, nose, back, wings, beak	**Animals including Humans** survival, water, air, food, adult, baby, offspring, kitten, calf, puppy, exercise, hygiene	**Animals including Humans** movement, muscles, bones, skull, nutrition, skeletons	**Animals including Humans** mouth, tongue, teeth, oesophagus, stomach, small intestine, large intestine, herbivore, carnivore, canine, incisor, molar	**Animals including Humans** foetus, embryo, womb, gestation, baby, toddler, teenager, elderly, growth, development, puberty	**Animals including Humans** Circulatory, heart, blood, vessels, veins, arteries, oxygenated and deoxygenated blood, valve, exercise, respiration
Plants Deciduous, Evergreen trees, leaves, flowers (blossom), petals, fruit, rots, bulbs, seed, trunk, branches, stem	**Plants** seed, bulbs, water, light, temperature, growth	**Plants** air, water, light, nutrients, soil, reproduction, transportation, flower, pollination, dispersal	**Living Things and their Habitats** Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, snails, slugs, worms, spiders, insects, environment, habitats	**Living Things and their Habitats** mammals, reproduction, insect, amphibians, bird, offspring	**Living Things and their Habitats** classification, vertebrates, invertebrates, micro-organisms, mammals, reptiles, insects, amphibians
Everyday Materials wood, plastic, glass, paper, water, metal, rock, hard, soft, bendy, rough, smooth	**Living Things and their Habitats** living, dead, habitat, energy, food chain, pond, dessert, woodland, prey, predator	**Rocks** fossils, soils, sandstone, granite, marble, pumice, crystals, absorbent	**States of Matter** Solid, liquid, gas, evaporation, condensation, particles, temperature, freezing, heating	**Properties and Changes of Materials** hardness, solubility, transparency, conductivity, magnetic, filter, evaporation, dissolving, mixing	**Evolution and Inheritance** Fossils, adaption, evolution, characteristics, reproduction, genetics.
Seasonal Changes Summer, Spring, Autumn, Winter, sun, day, moon, night, light, dark	**Everyday Materials & Uses** hard, soft, stretchy, stiff, shiny, dull, rough, smooth, bendy, waterproof, absorbent, opaque, transparent, brick, paper, fabrics, squashing, bending, twisting, stretching, elastic, foil	**Light** light, shadows, mirror, reflective, dark, reflection	**Sound** volume, vibration, wave, pitch, tone, speaker	**Earth and Space** Earth, Sun, Moon, axis, rotation, day, night, Phases of the Moon, star, constellation	**Light** refraction, reflection, light, spectrum, rainbow, colour
		Forces and Magnets magnetic, force, contact, attract, repel, friction, poles, push, pull	**Electricity** cells, wires, bulbs, switches, buzzers, battery, circuit, series, conductors, insulators	**Forces** Air resistance, water, resistance, friction, gravity, Newton, gears, pulleys	**Electricity** cells, wires, bulbs, series, parallel, Amps, volts, insulators, conductors, buzzers

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Progression of Key Scientific Vocabulary – Year 1

Year 1 Scientific Vocabulary				
Plants	Animals including Humans	Seasonal Change	Everyday Materials	Working Scientifically
Common wild plants	Common animals	season	material	question
garden plants	fish, amphibians, reptiles	spring	wood	answer
tree	birds, mammals, pets	summer	plastic	observe
deciduous	carnivores, meat	autumn	glass	equipment
evergreen	cat, dog, lion, tiger, fox, shark	winter	paper	identify
trunk	killer whale	weather	water	classify
branches	eagle	hot/warm	metal	sort
leaf	hawk	cool/cold	rock	group
root	snake	sun/sunny	hard	record
plant	herbivores, plants	cloud/cloudy	soft	diagram
bud	cow	rain/rainy	bendy	chart
flowers	hamster, guinea pig, tortoise	snow/snowing	rough	map
blossom	omnivore, meat and plants	hail/hailing	smooth	data
petals	badger	sleet	shiny/dull	compare
stem	human	frost	waterproof	contrast
fruit	neck, arms, elbows, face, knees,	fog/mist	absorbent	describe
vegetables	ears, eyes, hair, mouth, teeth	ice/icy	brick	biology
bulb		rainbow	elastic	chemistry
seed		thunder	foil	physics
		lightning		
		storm		
		light/dark		
		day/night		

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Progression of Key Scientific Vocabulary – Year 2

Year 2 Scientific Vocabulary				
Plants	**Animals including Humans**	**Living Things & Habitats**	**Everyday Materials & Uses**	**Working Scientifically**
water light suitable temperature grow healthy germination reproduction	offspring grow adults nutrition reproduce survival water food air exercise hygiene egg/chick/chicken egg/caterpillar/pupa/butterfly spawn/tadpole/frog lamb/sheep baby/toddler/child/teenager/adult	living dead never alive habitats micro-habitats food food chain sun/grass/cow/human alive healthy logs leaf litter stony path under bushes shelter seashore woodland ocean rainforest conditions hot/warm/cold dry/damp/wet bright/shade/dark	wood metal plastic glass brick rock paper cardboard squashing bending twisting stretching **metal**– coins, cans, cars, table, legs **wood** – matches, floors, telegraph poles **spoons** – plastic, wood, metal **John Dunlop** – rubber **Charles Macintosh** – waterproof fabric	question answer observe equipment identify classify sort group record diagram chart map data compare contrast describe biology chemistry physics

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Progression of Key Scientific Vocabulary – Year 3

Year 3 Scientific Vocabulary					
Plants	**Animals including Humans**	**Light**	**Rocks**	**Forces and Magnets**	**Working Scientifically**
Structure- flowering, plants, roots, stem/trunk, leaves, flowers **Function** – nutrition, support, reproduction, makes own food **Requirements for life and growth** – air, light, water, nutrients from the soil, room to grow, fertiliser **Life cycle** – flowers, pollination, seed formation, seed dispersal.	nutrients vitamins minerals fat protein carbohydrates fibre water **skeletons** – support, protection, **skulls** – brain **ribs** – heart, lungs, joint **muscles** – movement, pull, contract, relax, diet	light see dark reflect reflective surface natural star Sun Moon artificial Candle lamp translucent transparent	rock stone pebble boulder soil fossil grains crystals hard/soft texture absorb water marble chalk granite sandstone slate sandy soil clay soil chalky soil peat	force push pull open surface magnet magnetic attract repel magnetic poles north south metal iron steel	**Research** - relevant questions for scientific enquiries, comparative and fair tests systematic, careful and accurate observations **Equipment** - thermometers and data loggers **Data** – gather, record, classify, present **Record** - scientific language, drawings, labelled diagrams, keys, bar charts, and tables, oral and written explanations and conclusions predictions and improvements differences, similarities or changes Scientific evidence. secondary sources

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Progression of Key Scientific Vocabulary – Year 4

Year 4 Scientific Vocabulary					
Living Things & Habitats	Animals including Humans	Electricity	Sound	States of Matter	Working Scientifically
Invertebrates– snails, slugs, worms, spiders, insects **Vertebrates** –fish, amphibians, reptiles, birds, mammals, **Plants** – flowering plants, non-flowering plants, population, development, litter, deforestation environment flowering plants danger	**Human digestive system** – mouth, stomach, small intestine, large intestine, oesophagus, transports, acid, enzymes **Mouth** – mixes, moistens, saliva, teeth, rush, floss, **Incisors** – cutting, slicing **Canines** – ripping, tearing **Molars** – chewing, grinding Carnivore, herbivore, omnivore food chain Sun producers prey predators	appliances electricity electrical circuit cell/wire/bulb/buzzer danger electrical safety sign insulators wood rubber plastic glass conductors metal water switch open components plug motor mains	sound sound source noise vibrate travel solid liquid gas pitch tune high low volume loud quiet fainter muffle vibrations insulation instrument percussion strings brass woodwind tuned instrument	solid liquid gas, air oxygen powder grain/granular crystals ice/water/steam, water vapour heated/heating, cooled/cooling temperature degrees Celsius melt freeze, solidify melting point molten, boil.	**Research** - relevant questions for scientific enquiries, comparative and fair tests systematic, careful and accurate observations **Equipment** - thermometers and data loggers **Data** – gather, record, classify, present **Record** - scientific language, drawings, labelled diagrams, keys, bar charts, and tables, oral and written explanations and conclusions predictions and improvements differences, similarities or changes Scientific evidence. secondary sources

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Progression of Key Scientific Vocabulary – Year 5

Year 5 Scientific Vocabulary				
Cycle of Green Plants	Forces	Earth and Space	Properties & Changes in Materials	Working Scientifically
Life process of reproduction – plants, animals, vegetable garden, flower border, reproduction **Plants** – sexual, asexual **Animals** – sexual **Life cycles** – mammal, amphibian, insect, bird **Life cycles around the world** – rainforest, oceans, desert, prehistoric similarities differences germination pollination stamen stigma	fall gravity force air resistance water resistance friction moving surfaces mechanisms levers pulleys gears magnetic force magnet attract	Earth Sun Moon Mercury Venus Mars Jupiter Saturn Uranus Neptune Pluto planets dwarf planets orbit revolve solar system celestial body sphere/spherical rotate/rotation spin geocentric model heliocentric model shadow clocks sundials astronomical clocks	properties hardness solubility transparency conductive/ conductivity response to magnets dissolve solution solute separate/separating solids/ liquids/gas filtering sieving evaporating/evaporation reversible change irreversible change mixing melting insulation chemical opaque translucent rusting residue condensing	plan variables measurements accuracy precision repeated testing record data scientific diagrams/labels tables classification keys bar/line graphs predictions further comparative and fair tests report and present conclusions/ explanations casual relationships degree of trust oral and written display presentation evidence refute ideas/support/challenge evidence and patterns systematic quantitative measurements

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Progression of Key Scientific Vocabulary – Year 6

Year 6 Scientific Vocabulary					
Living Things & Habitats	Animals including Humans	Evolution and Inheritance	Electricity	Light	Working Scientifically
organisms micro-organisms fungus mushrooms classification keys environment fish amphibians reptiles birds mammals vertebrates invertebrates	Circulatory system heart blood blood vessels pumps oxygen carbon dioxide lungs nutrients water diet exercise drugs lifestyle	Evolution suited/suitable adapted/adaptable offspring vary/variation inherit/inheritance fossils characteristics	Static electricity positive/negative electrons/protons charge components bulb, cell, battery, buzzer, motor, resister, voltage/current switch electrical circuit complete circuit short circuit series circuit parallel circuit circuit diagram terminal connection/ loose connection appliances conductor insulator resistance danger brightness	light travels straight line reflect reflection light source object shadows mirrors periscope rainbow filters	plan variables measurements accuracy/precision repeated testing record data scientific diagrams/labels tables classification keys bar/line graphs predictions further comparative and fair tests report and present conclusions/ explanations casual relationships degree of trust oral and written evidence /systematic refute ideas/support/challenge evidence and patterns quantitative measurements