

Science Pupil Progression

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals including humans	Humans and animals: head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth and teeth, butterfly, hibernate, habitat, healthy, exercise	Humans and animals: head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth and teeth	egg, chick, chicken; egg, caterpillar, pupa, butterfly; spawn, tadpole, frog; lamb, sheep	Nutrition, food types, carbohydrates, protein, vitamins and minerals, fat, sugar, fruits and veg, dietary fibre, water, balanced diet, skeleton, muscles, support, protection, movement, names of bones, vertebrate, invertebrate	Digestive system, nutrition, mouth, teeth, canine, incisor, molar, premolar, saliva, tongue, rip, tear, chew, grind, cut, oesophagus (gullet), stomach, small intestine, large intestine, rectum, anus, carnivore, herbivore, omnivore, producer, consumer, predator, prey, food chain	<ul style="list-style-type: none"> I know how to describe the changes as humans develop to old age 	Circulatory system, heart, blood, blood vessels, pumps, oxygen, carbon dioxide, lungs, nutrients, water, diet, exercise, drugs, lifestyle, evolution, suited/suitable, adapted, adaptation, offspring, reproduction, variation, inherit, inheritance, fossils
Everyday materials	hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof;	Materials: hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque/transparent. brick, paper, fabrics, elastic, foil.	Suitable/unsuitable, use, object, material, property, wood, plastic, glass, metal water, rock, fabrics, hard, soft, stretchy, flexible, waterproof, absorbent, transparent, translucent, opaque, shape, change, twist, squash, bend, stretch, roll, squeeze			rigid, hard, soft, stretchy, flexible, waterproof, absorbant, electrical/thermal conductivity, melting, dissolve, solution, insoluble, solute, solvent, particle, mixture, filtering, sieving, residue, reversible/non reversible changes, new material, burning, rusting	
Light				Light, light source, darkness, reflect, reflective, mirror, shadow, block, direction, transparent, opaque, translucent			Light, light source, darkness, reflect, reflective, shadow, block, absorb, direction, transparent, opaque, translucent
Magnets	magnetic, metal, sticky			Force, contact force, non contact force, magnetic force, magnet, strength, bar/ring/button/horseshoe magnets, attract, repel, magnetic material, metal, iron, steel, non magnetic, poles, north/south pole			
Electricity					Electricity, appliance, device, mains, plug, electrical circuit, complete circuit, circuit diagram, circuit symbol, components, cell, battery, positive/negative, connect, connection, short circuit, wire, crocodile clip, bulb, bright/dim, switch, buzzer, motor, faster/slower, conductor, insulator, metal/non metal		Electricity, appliance, device, electrical circuit, complete circuit, circuit diagram, circuit symbol, components, cell, battery, positive, negative, terminal, connection, short circuit, wire, crocodile clip, bulb, bright/dim, switch, buzzer, volume, motor, conductor, insulator, voltage, current, resistance,
Seasonal changes	Season, spring, summer, autumn, winter, weather, hot, warm, cool cold, sunny, cloudy, windy, rainy, snowing, hailing, sleet, frost, fog, mist, icy, rainbow, thunder, lightning, storm, light, dark, day, night	Season, spring, summer, autumn, winter, changes, difference weather, hot, warm, cool cold, sunny, cloudy, windy, rainy, snowing, hailing, sleet, frost, fog, mist, icy, rainbow, thunder, lightning, storm, light, dark, day, night					
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

Plants	sun, water, grow, seeds	Plants: leaves, flowers (blossom), petals, fruit, roots, bulb, seed, trunk, branches, stem.	bulbs. germination, reproduction (questions that recognise growth), growth, survival	<ul style="list-style-type: none"> I know how to identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers I know how to explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant I know how to investigate the way in which water is transported within plants I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Living things and their habitats	<ul style="list-style-type: none"> I know about similarities and differences in relation to living things and their habitats I know how to talk about the features of my own immediate environment and how environments might vary from one another I know how to make observations of animals and plants and explain why some things occur, and talk about changes. 		Living, dead, never been alive, names of local habitats, lond, woodland, meadow, name micro habitats, under log, stony path, under bushes, suited, basic needs, depend, food, food chain, shelter		Classification keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates, invertebrates, names of them, human impact, positive, negative (impact).	Life cycle, reproduction, sexual, asexual, germination, pollination, seed formation, seed dispersal, pollen, stamen, stigma, plantlets, runners, mammal, amphibian, insect, bird, fish, reptile, eggs, live young	Organism, micro-organism, fungus, mushrooms, classification keys, environment, fish, amphibians, reptiles, birds, ,mammals, vertebrates, invertebrates, name some of these, arachnid, mollusc, insect, crustacean
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Rocks				Rock, stone, pebble, boulder, soil, fossils, grains, crystals, texture, absorb water, let water through, marble, chalk, granite, sandstone, slate, sandy soil, clay soil, chalky soil, peat,			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Forces				Force, contact force, non contact force, magnetic force, magnet, strength, bar/ring/button/horseshoe magnets, attract, repel, magnetic material, metal, iron, steel, non magnetic, poles, north/south pole		Fall, Earth, gravity, weight, mass, air resistance, water resistance, friction, moving surfaces, mechanisms, levers, pulleys, gears, force, transfers	
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Sound					Sound, sound source, noise, vibration, travel, solid, liquid, gas, pitch, tune, high, low, volume, loud, quiet, fainter, muffle, strength of vibrations, insulation, instrument, percussion, strings, bass, woodwind, tuned instrument		
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
States of matter					States of matter, solid, liquid, gas, air, oxygen, powder, grainular/grain, crystals, change state, ice/water/steam, water vapour, heating, cooling, temperature, degrees celcius, melt, freeze, solidify, melting point, boil, boiling point, evaporation, condensation, water cycle, precipitation, transpiration		

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Earth and Space						Earth, planets, sun, solar system, moon, celestial body, spherical, rotation, spin, night and day, names of planets, dwarf planet, orbit, geocentric model, heliocentric model, shadow clocks, sundials, astronomical clocks	
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Evolution and inheritance							
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Famous scientists			John Dunlop, Charles Macintosh or John McAdam.			naturalists, animal behaviourists, David Attenborough Jane Goodall chemists create new materials, Spencer Silver, Ruth Benerito, geocentric, heliocentric, Ptolemy, Alhazen, Copernicus, Galileo Galilei Isaac Newton	Carl Linnaeus,classification palaeontologist, Mary Anning, Charles Darwin,Alfred Wallace.