

## Science Tier 2 and 3 Vocabulary Progression

	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
Y1	<u>Animals including humans</u> sight, senses, hear, touch, taste, smell, head, neck, ear, mouth, shoulder, hand, fingers, leg, foot, thumb, eye, nose, knee, toes, teeth, elbow, arm, light, dark, amphibians, birds, fish, mammals, reptiles, carnivore, herbivore, omnivore, habitat, classification	<u>Seasonal Change- Autumn and Winter</u> seasons, spring, summer, autumn, winter, windy, sunny, overcast, snow, rain, temperature	<u>Everyday Materials</u> plastic, wood, glass, metal, water, rock, hard, soft, stretchy, stiff, shiny, dull, rough, smooth, bendy, waterproof, absorbent, opaque, transparent	<u>Plants</u> root, stem, leaves, flower, seed, petal, fruit, bulb, deciduous, evergreen, trunk, branch, wild, garden, soil	<u>Seasonal Change- Spring and Summer</u> seasons, spring, summer, autumn, winter, windy, sunny, overcast, snow, rain, temperature	<u>Scientists and Inventors</u> properties, Ole Kirk Christiansen, astronaut, Mae Jemison, space, endeavour, enclosure, George Mottershead, horticulturist, rain gauge, meteorologist, Christopher Wren, Robert Hooke, Richard Towneley, George James Symons, veterinarian

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<p>Y2</p>	<p><b><u>Plants</u></b> leaves, trunk, branch, root, seed, bulb, flower, stem, wild, deciduous, evergreen, observe, grow, compare, record, temperature, predict, measure, diagram, germination, life cycle, seed dispersal</p>	<p><b><u>Living things and their habitat</u></b> Life processes, Living, non-living, dead, never alive, movement, respiration, reproduction, growth, excretion, nutrition, habitat, micro-habitat, food chain, producer, predator, prey woodland, ocean, rainforest, desert, tropical, arctic, adaption, dependency</p>	<p><b><u>Animals including humans</u></b> bird, mammal, fish, reptiles, minibeasts, insect, offspring, develop, life cycle, metamorphosis, larva(e), pupa, chrysalis, omnivore, herbivore, carnivore, exercise, healthy, unhealthy</p>	<p><b><u>Properties and Uses of Everyday Materials</u></b> wood, plastic, glass, metal, rock, brick, paper, cardboard, properties, waterproof, fabric, twisting, squashing, bending, absorbent, transparent, opaque, recycle</p>	<p><b><u>Living things and their habitats (minibeasts)</u></b> ecosystem, biodiversity, minibeast, species, leaf litter, environment, pollen, nectar, pollination, pollinator, energy, conservation, predator, decomposer, consumer, producer, prey, carnivore, omnivore, herbivore, decomposed</p>	<p><b><u>Scientists and Inventors</u></b> waterproof, surgery, doctor, science, healthy, exercise, properties, Elizabeth Garret Anderson, germs, horticulturalist, biome, Jane Colden, botanist, greenhouse</p>
<p>Y3</p>	<p><b><u>Plants</u></b> air, light, water, nutrients, soil, support, anchor, reproduction, pollination, dispersal, transportation, flower, energy, growth, seedling, carbon dioxide, oxygen, sugar, material, photosynthesis, chlorophyll</p>	<p><b><u>Animals including humans</u></b> nutrients, nutrition, carbohydrates, protein, fats, vitamins, minerals, fibre, skeleton, bones, joints, endoskeleton, exoskeleton, hydrostatic skeleton, vertebrates, invertebrates, muscles, contract, relax</p>	<p><b><u>Forces and magnets</u></b> force, push, pull, friction, surface. magnet, magnetic, magnetic field, attract, repel, pole, north, south, attract, repel, compass, direction</p>	<p><b><u>Light</u></b> light, source, dark, reflect, ray, mirror, bounce, visible, beam, sun, glare, travel, straight, opaque, shadow, block, transparent, translucent, illuminate</p>	<p><b><u>Rocks and Soils</u></b> rocks, igneous, metamorphic, sedimentary, anthropic, permeable, impermeable, chemical fossil, body fossil, trace fossil, Mary Anning, cast fossil, mould fossil, replacement fossil, extinct, organic matter,</p>	<p><b><u>Scientists and Inventors</u></b></p>

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					top soil, sub soil, base rock, palaeontology	
Y4	<p><b><u>Animals including humans</u></b> herbivore, carnivore, omnivore, digestive system, tongue, mouth, teeth, oesophagus, stomach, gall bladder, small intestine, pancreas, large intestine, liver, canine, incisor, molar, premolar, producer, consumer.</p>	<p><b><u>Sound</u></b> amplitude, volume, quiet, loud, ear, pitch, high, low, particles, instruments, wave, vibration, movement, travel, particles, pitch</p>	<p><b><u>Electricity</u></b> electricity, electric current, appliance, mains, crocodile clips, wires, bulb, battery, circuit, cell, battery holder, motor, buzzer, switch, conductor, electrical insulator, component.</p>	<p><b><u>Living things and their habitats</u></b> environment, flowering, nonflowering, plants, animals, vertebrates, fish, amphibians, reptiles, mammals, invertebrate, human impact, nature reserves, deforestation.</p>	<p><b><u>States of Matter</u></b> solid, liquid, gas, particles, state, materials, properties, matter, melt, freeze, water, ice, temperature, process, condensation, evaporation, water vapour, energy, precipitation, collection</p>	<p><b><u>Scientists and Inventors</u></b></p>
Y5	<p><b><u>Properties and Changes of Materials</u></b> hardness, solubility, transparency, conductivity, magnetic, filter, evaporation, dissolving, mixing material, conductor, dissolve, insoluble, suspension, chemical, physical, irreversible, solution, reversable, separate, mixture, insulator, transparent, flexible, permeable, soluble, property, magnetic, hard.</p>	<p><b><u>Earth and Space</u></b> Earth, Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, planets, axis, rotation, constellation, crescent, lunar, waxing, waning, orbit, axis, rotate, spherical, geocentric, heliocentric, solar system</p>	<p><b><u>Forces</u></b> air resistance, water resistance, friction, gravity, Newton, gears, pulleys, force, push, pull, variables, opposing, streamline, brake, mechanism, lever, cog, machine, pulley</p>	<p><b><u>Living things and their habitats</u></b> foetus, embryo, womb, gestation, baby, toddler, teenager, elderly, growth, development, puberty, hormone, physical, emotional, sexual, asexual, pollination, dispersal, reproduction, cell, fertilisation, pollination, male, female, pregnancy, young, mammal, metamorphosis, amphibian, insect, egg, embryo, bird, plant</p>	<p><b><u>Animals including humans</u></b></p>	<p><b><u>Scientists and Inventors</u></b></p>

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	<p><b><u>Materials - separating mixtures</u></b>  Solid, liquid, gas, particles, state, materials, properties, matter, melt, freeze, water, ice, temperature, process, condensation, evaporation, water vapour, energy, precipitation, collection</p>					
Y6	<p><b><u>Light</u></b>  light source, reflect, ray, mirror, bounce, visible, beam, glare, travel, straight, opaque, shadow, block, spectrum, transparent, translucent, reflect, absorb, emitted, scattered, refraction, waves, photon, vacuum</p>	<p><b><u>Electricity</u></b>  neutrons, protons, electrons, nucleus, atom, appliances, mains, crocodile clips, wires, bulb, battery cell, battery holder, motor, buzzer, switch, conductor, electrical insulator, voltage, resistance, electrons, electrical current</p>	<p><b><u>Living things and their habitats</u></b>  fungi, bacteria, taxonomy, variation organisms, populations, classification, environment, flowering, nonflowering, vertebrates, fish, amphibians, reptiles, mammals, invertebrate, human impact, nature reserves, deforestation, microorganism, organism, invertebrates, vertebrates, Linnaean.</p>	<p><b><u>Animals including humans</u></b>  oxygenated, deoxygenated, valve, exercise, respiration, circulatory system, heart, lungs, alveoli, blood vessels, plasma, platelets, blood, artery, vein, pulmonary, alveoli, capillary, digestive, transport, gas exchange, villi, nutrients, water, oxygen, alcohol, drugs, tobacco, addiction</p>	<p><b><u>Evolution and Inheritance</u></b>  fossils, adaptation, evolution, characteristics, reproduction, genetics, variation, inherited, environmental, mutation, competition, survival of the fittest, evidence</p>	<p><b><u>Scientists and Inventors</u></b></p>