



The Greville Primary School – Progression in Science Vocabulary

| Materials | | | | | | | |
|--|--|---|--|--|--|----------------------------------|--|
| Reception | | Year 1 | | Year 2 | | Year 5 | |
| Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| Paper, cupboard, wood, plastic, metal, fabric, smell, taste, sound, sight, touch | rough, smooth, soft, hard, bumpy, shiny, dull, stretchy, stiff, bendy, rigid | object, wood, plastic, metal, rock, water; hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof. | properties, material, opaque/transparent absorbent/not absorbent | wood, metal, plastic, glass, brick, rock, paper, cardboard, strong, waterproof, bounce, grip (sole), squash, bend, twist, stretch, stretchy/not stretchy, fabric | property, material, object, suitability, purpose, solid, fair test | material, mixture, burning, rust | thermal, conductor, insulator, transference, independent/dependent/controlled variable, dissolve, solid, liquid, gas, states of matter, solution, filtration, sieving, evaporation, permeable, vapour, particles, irreversible, chemical changes, acid |
| | | Autumn 1 | | Autumn 1 and 2 | | Summer 1 | |

Living things and their habitats

| Reception | | Year 2 | | Year 4 | | Year 5 | | Year 6 | |
|------------------------------|---|--|---|---|---|--|--|---|---|
| Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| animals, food, homes, water, | habitats, environment, diet, nocturnal, shelter | living, features, move, feed, grow, senses, shelter, depend/ survive, suitability, transfer, environment | reproduce, habitat, microhabitat, source, nutrients, energy, food chain, producer, prey, predator | group, category, key, flowering, non-flowering, environment, surroundings, conditions, natural, human-made, endangered, extinct, positive, negative, indifferent, protect, manage, impact | classification, vertebrate, invertebrate, spores, dichotomous key, urbanisation, deforestation, pollution, climate change, population, fossil fuels, natural disaster, human impact, Venn diagram, conservation | lifecycle, natural world, expertise, observe, document , study | stages of development, sexual, asexual, reproduction, larvae, embryo, metamorphosis, naturalist, sexual/ asexual reproduction, pistal/carpel, stigma, style, ovary, stamen, anther, nectar, pollen, pollination, fertilisation, dispersal, tuber, bulb, runner, clone, vegetative propagation, sperm, egg, external/internal fertilisation | insects, algae, moss, fern, conifer, bacteria | vertebrate/no n-vertebrate, taxonomy, arachnids, crustaceans, millipedes, annelids, echinoderms, molluscs, coelenterates, dichotomous key, ginkgoes, angiosperms, microorganism , microbes, fungi, protists |
| | | Spring 1 and 2 | | Spring 1, Summer 1 | | Autumn 1, Spring 2 | | Autumn 1 | |

Animals, including humans

| Animals, including humans | | | | | | | | | | | | | |
|--|--|---|--|--|---|--|--|--|--|---|---|--|---|
| Reception | | Year 1 | | Year 2 | | Year 3 | | Year 4 | | Year 5 | | Year 6 | |
| Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| animals, head, neck, arms, legs, knees, face, ears, eyes, hair, mouth, teeth, tongue, feet, hands, exercise, healthy, unhealthy, | lifecycles skin, feathers, fur, scales, spines, tail | head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth, tongue, feet, hands, torso, skin, senses, ears/hearing hands/touch, nose/smell, eyes/sight, tongue/taste, birds, fish, feathers, scales, breathe, lay, young, diet | characteristic, cold-/warm-blooded, mammal, reptile, amphibian, carnivore, omnivore, herbivore | growth, human, child, toddler, teenager, adult, survive, shelter, exercise, muscles, heart, lungs, brain, meat, fruit, vegetables, dairy, fat, sugar, healthy, portion | offspring, lifecycle, limbs, reproduce, energy, air (oxygen), temperature, hygiene, mental health | growth, carbohydrate, fat, protein, dairy, domestic, pet, environment, diet, behaviour, company, health and welfare, skeleton, skull, ribcage, spine, muscle, relax, contract, | nutrition, energy, calcium, joints, organs, triceps, bicep | teeth, digestive system, mouth, tongue, stomach, adaptation energy, prey, predator | incisor, canine, molar, premolar, carnivore, omnivore, herbivore, oesophagus, small and large intestine, food chain, producer, primary/secondary/tertiary consumer | toddler, stages, lifecycle, puberty, pubic hair, breasts, periods, womb, chemical, mass | embryo, foetus, adolescent, hormones genes, DNA, oestrogen testosterone, pituitary gland, reproduction, menstruation, gestation period, viviparous zygote | pump, heart, lifestyle, drugs, medicine, illegal, vitamins | circulatory system, organ, blood vessels, arteries, veins, capillaries, living cells, oxygen, carbon dioxide, deoxygenated, oxygenated, platelets, plasma, red/white blood cells, antibodies, single/double circulatory system, nicotine, caffeine, proteins, stimulant, hallucinogen depressant, nicotine, ethanol |
| | | Spring 2 | | Summer 2 | | Spring 1 and 2 | | Summer 2 | | Summer 2 | | Summer 1 and 2 | |

Plants

| Plants | | | | | | | |
|--|--|--|---|--|--|---|---|
| Reception | | Year 1 | | Year 2 | | Year 3 | |
| Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| plant, flower, seed, water, sunlight, leaf, root, stem | grow, shoots, growth, change, look after, explain, observe | plants, wild plants, garden plants, weeds, trees, seeds, root, shoot, soil, magnifying glass, flower, petal, stem, leaf/leaves, tree, trunk, bark, branch, blossom, acorn, | local plant names, hand lens, common tree names, deciduous, evergreen | seed, bulb, plant, protect, mature, roots, shoot, food supply, temperature | seed coat, food store, seed leaves, germination, nutrients, absorb, energy, lifecycle, reproduce | seed, parent plant, roots, stem, leaves, trunk/branches, flowers, transport, absorb, tubes, flower, pollen, nectar, attract | dispersal, germination, root hair, function, nutrients, carbon dioxide, growth rate, nutrient, drought, climate, pollination, reproduce |
| | | Summer 1 | | Autumn 1, Autumn 2, Spring 2, Summer 1 | | Summer 1 | |

Seasonal changes

| Seasonal changes | | | |
|---|--------------------------|---|-------------|
| Reception | | Year 1 | |
| Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| seasons, autumn, spring, summer, winter, weather, sun, rain, snow, wind, storm, hot, cold | explain, observe, change | season, changes, autumn, winter, spring, summer, weather, sunrise, sunset | temperature |
| | | Autumn 1, Spring 1, Spring 2, Summer 2 | |

Forces and magnets

| Reception | | Year 3 | | Year 5 | |
|---|--------------------------|---|--|---|---|
| Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| magnet, connect, pull, push, explore, test, floating, sinking | magnetic, attract, metal | push, pull, surface, movement, magnet, attract, repel, north/south pole, metal, iron, steel, nickel | contact/non-contact force, friction, resistance, gravity, magnetic field, magnetism, horseshoe/bar/ring magnet | simple machine, effort, load, float, sink, streamlined, | friction, resistance, force meter, contact force, gravity, gravitational pull, mass, matter, air resistance, water resistance, drag, upthrust, displace, lever, pulley, gear, transmission, mesh, axle, fulcrum, pivot, mechanisms, redirecting force |
| | | Autumn 2 | | Autumn 2 | |

Light

| Year 3 | | Year 6 | |
|--|---|---|--|
| Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| light, reflect, visible, visibility, dark, shiny, bright, dull, matt, mirror, angle, shadows, position, direction, damage, protection, sunrise, sunset, rotation, compass direction, | light source, opaque, translucent, transparent, filters, UV rays, retina, pupil | beam, ray, shadow, cast, object, reflect, light source, | energy, distortion, factor, incident ray, reflected ray, angle of incidence, angle of reflection, normal line, phenomenon, refraction, spectrum, prism |
| Summer 2 | | Spring 1 | |

Rocks

| Year 3 | |
|---|---|
| Tier 2 | Tier 3 |
| rock, material, Earth, remains, heat, pressure, durable, preserve, decay, earthworm, leaves, soil | mineral, crust, formation, physical properties, metamorphic, sedimentary, igneous, grains, molten, magma, lava, crystals, permeable, impermeable, sediment, fossil, palaeontologist, fossilisation, organic matter, erode |
| Autumn 1 | |

| Sound | |
|--|--|
| Year 4 | |
| Tier 2 | Tier 3 |
| sound, vibrate/ vibrations, medium, volume, distance, decrease, insulation | energy, sound wave, sound source, insulator, pitch |
| Autumn 2 | |

| States of matter | |
|---------------------------------|---|
| Year 4 | |
| Tier 2 | Tier 3 |
| melt, temperature, freeze, melt | states of matter, solid, liquid, gas, matter, mass, volume, particles, properties, water vapour, melting point, freezing point, condensation, evaporation, water cycle, precipitation, water vapour |
| Spring 2 | |

| Electricity | | | | | |
|-------------------------------------|----------------------|---|---|----------------|---|
| Reception | | Year 4 | | Year 6 | |
| Tier 2 | Tier 3 | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| plug, electric, switch, play, power | electricity, battery | appliance, mains electricity, battery, generated, power station, electrical energy, pylon, plug, socket | convert, series circuit, component, bulb (lamp), lamp holder, buzzer, cell, battery, wire, crocodile clip, electrical conductor, electrical insulator | symbol, device | series circuit, cell, battery, component, voltage |
| | | Autumn 1 | | Spring 2 | |

| Earth and space | | | |
|---|--------|---|--|
| Reception | | Year 5 | |
| Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| Earth, sun, moon, star, space, day, night | planet | Earth, sun, moon, planet, star, solar system, rotate, seasons, shadows, position, 24 hours, daytime, night-time | orbit, atmosphere, scale, heliocentric, geocentric, planetary movement, axis |
| | | Spring 1 | |

| Evolution and inheritance | |
|---|---|
| Year 6 | |
| Tier 2 | Tier 3 |
| diversity, siblings, characteristics, traits, habitats, climate, extinction, crossbreed | evolution, mould/body/trace/ cast fossil, fossil record, species, variation, inheritance, inherited/environmental variation, selective-breeding, natural selection, adaptation, organism, pollinators |
| Autumn 2 | |