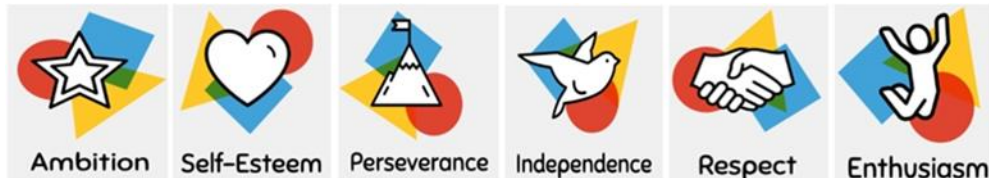


Science Vocabulary Ladder

<i>In year...</i>	
Year 6	<p><u>Living things and their habitats</u> vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering, non-flowering</p> <p><u>Animals, including humans</u> heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle</p> <p><u>Evolution and inheritance</u> offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils</p> <p><u>Light</u> light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous <u>Year 3 plus straight lines, light rays</u></p> <p><u>Electricity</u> circuit, complete circuit, circuit diagram, circuit symbol, cell, battery, bulb, buzzer, motor, switch, voltage</p>
Year 5	<p><u>Living things and their habitats</u> life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings</p> <p><u>Animals, including humans</u> puberty, human, development, growth, mass, life expectancy, gestation, length, toddler, child, teenage, adult, elderly</p> <p><u>Properties and changes of material</u> thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve, reversible/non-reversible change, burning, rusting, new material</p> <p><u>Earth and space</u> Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, solar system, rotates, star, orbit, planets</p>



	<p><u>Forces</u> force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears</p>
Year 4	<p><u>Living things and their habitats</u> classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate</p> <p><u>Animals, including humans</u> 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><u>States of matter</u> solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water cycle</p> <p><u>Sound</u> sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation</p> <p><u>Electricity</u> 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</p>
Year 3	<p><u>Animals including humans</u> nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints</p> <p><u>Plants</u> photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal (wind dispersal, animal dispersal, water dispersal)</p> <p><u>Rocks</u> 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><u>Light</u></p>



	<p>light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous</p> <p><u>Forces and magnets</u> 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</p>
Year 2	<p><u>Living Things and their habitats</u> Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed</p> <ul style="list-style-type: none"> • Names of local habitats e.g. pond, woodland etc. • Names of micro-habitats e.g. under logs, in bushes etc <p><u>Animals including humans</u> offspring, reproduction, growth, child, young/old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta)</p> <p><u>Plants</u> leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud names of trees in the local area names of garden and wild flowering plants in the local area Year 1 vocabulary plus light, shade, sun, warm, cool, water, grow, healthy</p> <p><u>Uses of everyday materials</u> Names of materials – wood, metal, plastic, glass, brick, rock, paper, cardboard Properties of 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 Year 1 plus opaque, transparent and translucent, reflective, nonreflective, flexible, rigid Shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching</p>
Year 1	<p><u>Animals including humans</u> head, body, eyes, ears, mouth, teeth, leg, tail, tall, wing, claw, fin, scales, feathers, fur, beak, paws, hooves</p> <p>Names of animals experienced from each vertebrate group Sense – touch, smell, see, taste, hear, fingers (skin), eyes, nose, ear, tongue</p> <p>Parts of the body linked to PSHE</p> <p><u>Plants</u></p>



leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud
names of trees in the local area
names of garden and wild flowering plants in the local area

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

Seasonal changes

Weather (sunny, rainy, windy, snowy etc.)
Seasons (winter, summer, spring, autumn)
Sun, sunrise, sunset, day length

Reception

Living things and their habitats

Model and encourage children to use vocabulary such as: plant, tree, bush, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment e.g. beach, forest
Expose children to supplementary vocabulary such as: environment

Animals, excluding humans

Model and encourage children to use vocabulary such as: names of animals, live, on land, in water, jungle, desert, North Pole, South Pole, sea, hot, cold, wet, dry, snow, ice
Expose children to supplementary vocabulary such as: environment, polar regions, ocean, camouflage

Humans

Model and encourage children to use vocabulary such as: hair (black, brown, dark, light, blonde, ginger, grey, white, long, short, straight, curly), eyes (blue, brown, green, grey), skin (black, brown, white), big/tall, small/short, bigger/smaller, baby, toddler, child, adult, old person, old, young, brother, sister, mother, father, aunt, uncle, grandmother, grandfather, cousin, friend, family, boy, girl, man, woman
Expose children to supplementary vocabulary such as: bald, elderly, wrinkles, male, female, freckles

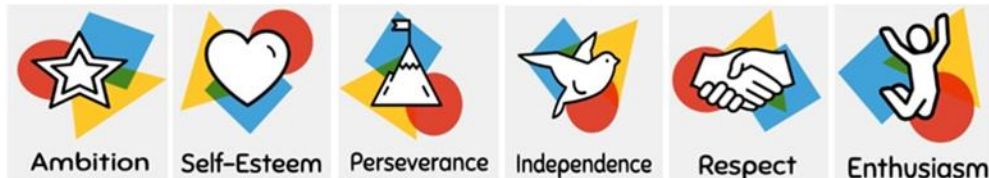
Seasonal changes

Model and encourage children to use vocabulary such as: spring, summer, autumn, winter, seasons, sunny, cloudy, hot, warm, cold, shower, raining, storm, thunder, lightning, hail, sleet, snow, icy, frost, puddles, windy, rainbow, animals, young, plants, flowers
Expose children to supplementary vocabulary such as: hibernate, migrate, snowflake

Materials, including changing materials



	<p>Model and encourage children to use vocabulary such as: ice, water, frozen, icicle, snow, melt, wet, cold, slippery, smooth, big, bigger, biggest, smaller, smaller, smallest, hard, soft, bendy, rigid, wood, plastic, paper, card, metal, strong, weak, hot, apply heat, waterproof, soggy, not waterproof, best, change, change back</p> <p>Expose children to supplementary vocabulary such as: solid, liquid, gas, most suited</p> <p><u>Light</u></p> <p>Model and encourage children to use vocabulary such as: Sun, sunny, light, shadow, shady, clouds, torch, see-through, non-see through, source, light source</p> <p>Expose children to supplementary vocabulary such as: casting a shadow, pale, dark, transparent, opaque</p> <p><u>Forces</u></p> <p>Model and encourage children to use vocabulary such as: float, sink, up, down, top, bottom, surface, move, roll, drop, fly, turn, spin, fall, fast, slow, faster, slower, fastest, slowest, further, furthest, wind, air, water, blow</p> <p>Expose children to supplementary vocabulary such as: force, rotate, solid, liquid, gravity</p> <p><u>Sound</u></p> <p>Model and encourage children to use vocabulary such as: sound, noise, listen, hear, music, voices, bird song, traffic, sirens, thunder, high, low, loud, quiet, soft, volume, crackle, thunder, hum, buzz, roar</p> <p>Expose children to supplementary vocabulary such as: source, crescendo, vibration, pitch</p> <p><u>Earth and space</u></p> <p>Model and encourage children to use vocabulary such as: Sun, Moon, Earth, star, planet, sky, day, night, space, round, light, heavy, fall, bounce, float, rise, fall, air</p> <p>Expose children to supplementary vocabulary such as: sunrise, sunset, astronaut, astronomer, constellation, orbit, nocturnal, slow-motion, magnify</p>
Nursery	<p><u>Animals, excluding humans</u></p> <p>Model and encourage children to use vocabulary such as: egg, chick, bird, caterpillar, cocoon, chrysalis, butterfly, frog spawn, tadpole, froglet, frog, grow, change, die, names of animals and their young, fur, feathers, scales, tail, wings, beak, claws, paws, hooves, swim, walk, run, jump, jump, fly, patterns, spots, stripes</p> <p>Expose children to supplementary vocabulary such as: life cycle, mane, webbed feet</p> <p><u>Humans</u></p> <p>Model and encourage children to use vocabulary such as: grow, change, baby, toddler, child, adult, old person, smell, taste, touch, feel, hear, see, blind, deaf</p> <p>Expose children to supplementary vocabulary such as: life cycle, senses, elderly, die (if appropriate)</p>



Living things and their habitats

Model and encourage children to use vocabulary such as: natural, plant, animal, leaves, seeds, conkers, acorns, twigs, bark, shells, feathers, pebbles, stones, same, different, pattern
Expose children to supplementary vocabulary such as: living, dead, similar

Plants

Model and encourage children to use vocabulary such as: plant, leaf, stem, trunk, branch, root, bark, flower, petal, seed, berry, fruit, vegetable, bulb, plant, hole, dig, water, weed, grow, shoot, die, dead, soil

Expose children to supplementary vocabulary such as: seedling, healthy, unhealthy, strong, sturdy, wilting, decay, mould, life cycle

Materials, including changing materials

Model and encourage children to use vocabulary such as: mix, stir, cook, hot, oven, microwave, change, burn, melt, hard, runny, set, freeze, freezer, cold, blended, hard, soft, bendy, stiff, wobbly, wood, plastic, paper, card, fabric

Expose children to supplementary vocabulary such as: solid, liquid, rigid, stronger, weaker

Electricity

Model and encourage children to use vocabulary such as: battery, plug, socket, electricity, wire, sound, light, move

Expose children to supplementary vocabulary such as: mains electricity, device, appliance, electrical

Light

Model and encourage children to use vocabulary such as: light, torch, bulb, lamp, spotlight, shiny, bright, brighter, brightest, Sun, shine, glow, mirror

Expose children to supplementary vocabulary such as: light source, reflective, non-reflective, dim, dimmer, dimmest

Forces

Model and encourage children to use vocabulary such as: object, float, sink, water, up, down, top, bottom, push, pull, magnet, spring, squash, bend, twist, stretch, turn, spin, smooth, rough, fast, slow

Expose children to supplementary vocabulary such as: rising, falling, attract, repel, faster, slower, pulley, gear, elastic

Sound

Model and encourage children to use vocabulary such as: sound, noise, loud, quiet, high, low, music, bang, blow, pluck, soft, hard, fast, slow, names of instruments

Expose children to supplementary vocabulary such as: musician, notes, vibrate, vibration, pitch, rhythm, pulse, volume

