



Sandford Hill Primary School Curriculum Overview: Science

Thoughtfulness and Respect

Year Group	Autumn	Spring	Summer
EYFS	<p>Our bodies Key vocab: skeleton, bones, muscles, heart, healthy, exercise</p> <p>Senses Key vocab: taste, taste buds, sight, hearing, touch, smell.</p> <p>Animals that come out at night. Key vocab: Nocturnal</p> <p>Solar System Key vocab: Planet, star, moon</p> <p>Signs of Autumn Key vocab: cooler, leaves, change, decay, harvest.</p> <p>Signs of Winter Key vocab: colder, ice, freeze, frost, hibernation.</p>	<p>Planting a bean Key vocab: soil, plant, seed, nutrients, trowel</p> <p>Build a bridge for the Three Billy Goats Gruff Key vocab: Investigate, strong, sturdy, weak.</p> <p>Predict what will happen to the Gingerbread man in milk, vinegar and oil. Key vocab: liquid, dissolve, predict, fair test</p> <p>Investigating floating and sinking Key vocab: investigate, predict, float, sink</p> <p>Making a potion. (Room on a Broom) Key vocab: washing up liquid, vinegar, bicarbonate soda and food colouring, investigate, predict, pipette, droplet</p> <p>Signs of Spring Key vocab: shoot, bud, blossom, warmer.</p> <p>'Walking Water' experiment. Key vocab: absorb, change, mix</p>	<p>Mini beasts Key vocab: antennae, insect</p> <p>Lifecycles Frogspawn, tadpoles, froglet, frog. Egg, caterpillar, cocoon, butterfly.</p> <p>Pond dipping Key vocab: Frogspawn, tadpoles, newt, pondweed, gentle.</p> <p>Growing cress experiment Key vocab: Predict, seeds.</p> <p>Planting Key vocab: soil, plant, seed, nutrients, buds, roots, Stem, petals.</p> <p>Signs of Summer Key vocab: hot, beach, sea, shade.</p>



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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Seasonal Change Plants	Materials	Seasonal Change Plants	Animals including Humans Ourselves	Seasonal Change Plants	Animals including Humans Animals
Vocabulary	<p>Weather (sunny, rainy, windy, snowy etc.), Seasons (winter, summer, spring, autumn), Sun, sunrise, sunset, Day length</p> <p>Leaf, petal, stem, roots, blossom, fruit, berry, stalk, bud, seed, trunk, branch</p> <p>Names of common flowers and plants (including trees) in the local area.</p>	<p>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</p>	<p>Weather (sunny, rainy, windy, snowy etc.), Seasons (winter, summer, spring, autumn), Sun, sunrise, sunset, Day length</p> <p>Leaf, petal, stem, roots, blossom, fruit, berry, stalk, bud, seed, trunk, branch</p> <p>Names of common flowers and plants (including trees) in the local area.</p>	<p>Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves</p>	<p>Weather (sunny, rainy, windy, snowy etc.), Seasons (winter, summer, spring, autumn), Sun, sunrise, sunset, Day length</p> <p>Leaf, petal, stem, roots, blossom, fruit, berry, stalk, bud, seed, trunk, branch</p> <p>Names of common flowers and plants (including trees) in the local area.</p>	<p>Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves</p> <p>Names of animals experienced first-hand from each vertebrate group</p> <p>N.B. The children need to be able to name and identify a range of animals in each group. They do not need to use the terms mammal, reptiles etc. or know the key characteristics of each, although they will probably be able to identify birds and fish, based on their characteristics.</p> <p>The children also do not need to use the words carnivore, herbivore and omnivore. If they do, ensure that they understand that carnivores eat other animals not just meat.</p>



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Year 2	Plants	Animals including Humans	Plants	Everyday Materials	Plants	Living Things and Their Habitats
Vocabulary	As for year 1 plus - light, shade, sun, warm, cool, water, grow, healthy, bulb	Offspring, Reproduction, Growth, Child, Young/Old stages (examples - chick/hen, baby/child/adult, caterpillar/butterfly), Exercise, Heartbeat, Pulse, Breathing, Hygiene, Germs, Disease, Nutrition, Food types (examples – meat, fish, vegetables, bread, rice, pasta)	As for year 1 plus - light, shade, sun, warm, cool, water, grow, healthy, bulb	Names of materials – increased range from Y1 Properties - as for Y1 plus opaque, transparent and translucent, reflective, non-reflective, flexible, rigid Shape, push/pushing, pull/pulling, twist/twisting, squash/squashing. Bend/bending, stretch/stretching	As for year 1 plus - light, shade, sun, warm, cool, water, grow, healthy, bulb	Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed, names of local habitats e.g. pond, woodland etc., names of micro-habitats e.g. under logs, in bushes etc.



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Year 3	Animals including Humans Nutrition The Skeleton	Forces	Magnets	Plants	Light	Rocks and Soils
Vocabulary	Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, skull, ribs, spine, muscles, joints	Force, push, pull, twist, contact force, non-contact force, friction	magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole	Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal – wind dispersal, animal dispersal, water dispersal	Light, Light source, Dark, Absence of light, Transparent, Translucent, Opaque, Shiny, Matt, Surface, Shadow, Reflect, Mirror, Sunlight, Dangerous	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



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Year 4	Living Things and Their Habitats	Electricity	Sound	Animals including Humans Teeth and Digestion	States of Matter	Living Things and Their Habitats
Vocabulary	Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering and non-flowering	circuit, cell, electrical. electricity, battery, bulb, buzzer, motor, break, electrical conductor, electrical insulator, component, wires, switch	sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation	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	solid, liquid, gas, melt, boil, freeze, solidify, evaporate, evaporation, condense, condensation, temperature,	Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering and non-flowering



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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	Materials	Forces	Materials	Living Things and Their Habitats Life Cycles	Earth and Space	Animals including Humans Puberty
Vocabulary	Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve	Force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears	mixture, dissolve, solution, soluble, insoluble, filter, sieve reversible/non-reversible change, burning, rusting, new material	Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings	Earth, Sun, Moon, Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune Spherical, Solar system, rotates, star, orbits, planets, axis, satellite, gravity,	Puberty, adolescence, periods, menstruation,



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Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 6	Living Things and Their Habitats	Light	Electricity	Animals including Humans Circulatory System	Evolution and Inheritance	Transition Unit
Vocabulary	Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering and non-flowering, classify, classification	Straight lines, light rays. (Y3 vocabulary - Light, Light source, Dark, Absence of light, Transparent, Translucent, Opaque, Shiny, Matt, Surface, Shadow, Reflect, Mirror, Sunlight, Dangerous)	Circuit, complete circuit, circuit diagram, circuit symbol, cell, battery, bulb, buzzer, motor, switch, voltage NB Children do not need to understand what voltage is but will use volts and voltage to describe different batteries. The words cells and batteries are now used interchangeably	Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs and lifestyle	Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils	