

Succeeding together - fostering a love of learning, within a nurturing Christian community, to bring out 'the best in everyone'.

Science Vocabulary - by year group and strand

EYFS	
The Natural World	
Working Scientifically	Observe, watch, record, measure, changes, vibration, melting, travelling, shadow, attracting, transparent, floating
Plants	Flower, Petal, Stem, roots, soil, seeds, allotment, vegetable names, fruit names, tree names
Animals Including humans	Body parts, animal names, Vegetables, plants, flower, seed, tree, conker, leaf, pumpkin, grow, food, sunshine, toilet vocabulary (SRE Curriculum), Pet names, Zoo Animal Names, Farm Animal Names
Everyday Materials	Hard, soft, smooth, rough, water, mix, stir, walls, mud, roof, sand, stone, brick, squash, squeeze, pull, push, solid, liquid, material names
Seasonal Changes	Day, night, light, dark, Summer, Spring, Autumn, Winter, damp, dry, mist, long, short, suncream, protection.
Living things and their habitats	Habitats, lifecycles, food, nests, dens, hole,

Year 1

<p>Animals including humans</p>	<p>Birds, fish, amphibians, reptiles, mammals and invertebrates Feathers, scales, gills, fins, hair, land, water, backbone, skeleton Carnivores, herbivores, omnivores Meat, plants (Common parts/structures of animals) (Names of animals that can be found in the school grounds) (Names of animals that the children keep as pets)</p>
<p>Everyday materials</p>	<p>Types of materials: wood, plastic, glass, metal, water, rock, brick, fabric, sand, paper, flour, butter, milk, soil Properties of materials: hard/soft, stretchy/not stretchy, shiny/dull, rough/smooth, bendy/not bendy, transparent/not transparent, sticky/not sticky Verbs associated with materials: crumble, squash, bend, stretch, twist Senses: touch, see, hear, smell and taste</p>
<p>Plants</p>	<p>Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine , holly, etc Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd’s purse, sorrel, spear thistle, white campion, white deadnettle and yarrow. Garden plants – crocus, daffodil, bluebells, etc Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs</p>
<p>Seasonal Changes</p>	<p>Seasons; spring, summer, autumn, winter</p>

How can I say “I can’t’ when the Bible says: I can do everything through Him who gives me strength.’ Philippians 4:13

	<p>Year, months, days</p> <p>Hot, warm, mild, cold</p> <p>Sunny</p> <p>Cloudy</p> <p>Rain, sleet, snow, hail, thunder, lightning, rainbow</p> <p>Wet, damp, dry</p> <p>Windy, breezy, gust</p> <p>Temperature</p> <p>Degrees Celsius</p> <p>Thermometer</p> <p>Weather vane</p> <p>Anemometer</p>
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Year 2	
Animals including humans	<p>Classification - Birds, fish, amphibians, reptiles, mammals and invertebrates</p> <p>Classification - Carnivores, herbivores, omnivores</p> <p>Stages of growth of many insects – egg, larva, pupa, adult</p> <p>Names of some invertebrates – ladybirds, butterflies, dragonflies, etc</p> <p>Names of some amphibians – smooth newt, common frog, toad</p> <p>Stages of life –baby, toddler, child, teenager, adult</p> <p>Life processes – growth, nutrition (feeding), respiration (breathing is part of this)</p>

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<p>Living things and their habitats</p>	<p>Habitat, micro habitat</p> <p>Pond, meadow, log pile, woodland, river, lake, beach, cliff</p> <p>Organism – plant, animal</p> <p>Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine , holly, etc</p> <p>Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd’s purse, sorrel, spear thistle, white campion, white deadnettle and yarrow.</p> <p>Garden plants – crocus, daffodil, bluebells, etc</p> <p>Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs</p> <p>Invertebrates – snail, slug, woodlouse, spider, beetle, fly, etc</p> <p>Pond animals – pond skater, water slater, ramshorn snail, pond snail, leech, common frog, smooth newt, etc</p>
<p>Plants</p>	<p>Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine , holly, etc</p> <p>Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd’s purse, sorrel, spear thistle, white campion, white deadnettle and yarrow.</p> <p>Garden plants – crocus, daffodil, bluebells, etc</p> <p>Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs</p> <p>Need of plants – water, light, heat, temperature</p>
<p>Uses of everyday materials</p>	<p>Types of materials: wood, plastic, glass, metal, water, rock, brick, fabric, sand, paper, flour, butter, milk, soil</p>

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	<p>Properties of materials: hard/soft, stretchy/not stretchy, shiny/dull, rough/smooth, bendy/not bendy, transparent/not transparent, sticky/not sticky</p> <p>Verbs associated with materials: crumble, squash, bend, stretch, twist</p> <p>Senses: touch, see, hear, smell and tast</p>
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Year 3	
Animals including humans	<p>Nutrition</p> <p>Diet</p> <p>Vitamins, minerals, fats, proteins and carbohydrates</p> <p>Functions of skeletons – protect, support and aid movement</p>
Forces and magnets	<p>Magnets – bar and horseshoe</p> <p>Attract, repel</p> <p>North and south poles</p> <p>Magnetic</p> <p>Magnetic field</p>
Light	<p>Simple comparisons: dark, dull, bright, very bright</p> <p>Comparative vocabulary: brighter, duller, and darker</p> <p>Superlative vocabulary: brightest, dullest, and darkest</p> <p>Opaque, translucent, transparent</p> <p>Shadow – block, absence of light</p> <p>Reflect – bounce, mirror, reflection</p>

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	<p>See – light source</p> <p>Sun – sunset, sunrise, position</p>
Plants	<p>Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine , holly, etc</p> <p>Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd’s purse, sorrel, spear thistle, white campion, white deadnettle and yarrow.</p> <p>Garden plants – crocus, daffodil, bluebells, etc</p> <p>Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs</p> <p>Parts of a flower – petal, stamen (anther + filament), carpel (stigma + style + ovary + ovule)</p> <p>Processes – pollination, fertilisation, germination</p>
Rocks	<p>Names of rocks – Chalk, limestone, granite, basalt, sandstone, flint, slate, shale, marble</p> <p>Types of rock – Sedimentary, metamorphic, igneous</p> <p>Types of minerals – Calcite, feldspar, topaz, diamond, talc, corundum</p> <p>Properties of rocks – Hard/soft, permeable/impermeable</p> <p>Processes – Heat, pressure, erosion, transportation, deposition, melt, solidify</p> <p>Size of rocks – Grain, pebbles</p> <p>Rock describing words – Crystals, layers</p> <p>Early areas of land – Gondwana, Pangea</p> <p>Land formations – Plates, volcanoes, mountains, valleys</p>

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Year 4

Animals including humans

Scientific Language

Pupils should read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge

Digestive system – oesophagus, stomach, acid, small intestine

Protein, vitamin, mineral, carbohydrate, fats, energy, growth, repair. Saliva

Teeth – Incisors, canines, premolars, molars

Function

Foodchain – producer, consumer, predator, prey

Electricity

Electricity

Appliances: fridge, freezer, TV, computer, iron, kettle, etc

Series circuit

Components: battery, bulb (lamp), bulb (lamp) holder, buzzer, crocodile clip, leads, wires, switch

Describing words: brighter, duller, slow, fast, quiet, loud

Conductor, insulator

Effects of electricity: Light, sound, movement, heat

Switches – open, close

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<p>Living things and their habitats</p>	<p>Habitat, micro habitat</p> <p>Pond, meadow, log pile, woodland, river, lake, beach, cliff</p> <p>Organism – plant, animal</p> <p>Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine , holly, etc</p> <p>Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd’s purse, sorrel, spear thistle, white campion, white deadnettle and yarrow.</p> <p>Garden plants – crocus, daffodil, bluebells, etc</p> <p>Parts of plants – roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs</p> <p>Invertebrates – snail, slug, woodlouse, spider, beetle, fly, etc</p> <p>Pond animals – pond skater, water slater, ramshorn snail, pond snail, leech, common frog, smooth newt, etc</p>
<p>Sound</p>	<p>Ways to create sound – bang, blow, shake, and pluck</p> <p>Loudness – quiet, quieter, quietest, loud, louder and loudest</p> <p>Pitch - low, lower, lowest, high, higher, and highest</p> <p>Vibrations</p> <p>Source</p>
<p>States of matter</p>	<p>States of matter - Solid, liquid and gas</p> <p>Examples of gases (at room temperature and pressure) – Oxygen, hydrogen, helium, carbon dioxide, methane</p> <p>Examples of liquids (at room temperature and pressure) – Water, milk, juice, petrol, oil</p>

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	<p>Examples of solids (at room temperature and pressure) –Wood, rocks, metal, plastic, glass, wool, leather, etc</p> <p>Processes – Melting, condensation, evaporation, solidifying, freezing</p> <p>Water cycle</p> <p>Water vapour</p> <p>Steam</p> <p>Heating</p> <p>Cooling</p>
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Year 5	
<p>Animals including humans</p>	<p>Gestation</p> <p>Fetus</p> <p>Fertilisation</p> <p>Species</p> <p>Baby</p> <p>Toddler</p> <p>Adolescent</p> <p>Adult</p>

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	<p>Elderly person</p> <p>Puberty</p> <p>Hormones</p> <p>Pituitary gland</p> <p>Testosterone</p> <p>Estrogen</p>
Earth and Space	<p>Day and night - Earth, axis, rotate</p> <p>Solar system – Star = Sun, Planets = Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune (Pluto was classified as Dwarf planet in 2006)</p> <p>Phases of the Moon - full moon, gibbous moon, half moon, crescent moon, new moon, waxing ,waning</p> <p>Moon’s orbit: 29.5 days, lunar month</p> <p>Orbit, planets, revolve, sphere</p>
Forces	<p>Types of forces: gravity, friction, air resistance, upthrust, weight</p> <p>Measuring forces: Newton meter, Newtons (N)</p> <p>Particles</p> <p>Surface area</p> <p>Push, pull</p> <p>Balance</p> <p>Mass – grams and kilograms</p> <p>Mechanical devices – gears, levers, pulleys, springs</p>

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Living things and their habitats	<p>Animals – amphibians, reptiles, birds, mammals, insects, fish</p> <p>Animal development – egg, larva, pupa, nymph, adult, metamorphosis</p> <p>Parts of a flower – petal, stamen (anther + filament), carpel (stigma + style + ovary + ovule)</p> <p>Processes – pollination, fertilisation, germination</p>
Properties and changes of materials	<p>Thermal conductivity – thermal conductor, thermal insulator</p> <p>Electrical conductivity – electrical conductor, electrical insulator</p> <p>Dissolving – Solvent, solution, solute, soluble, insoluble, solid, liquid, particles, suspensions</p> <p>Separating materials – Sieve, filter, evaporate, condense</p>

Year 6

Animals including humans	<p>Circulatory system – heart, blood, veins, arteries, pulse, clotting</p> <p>Diet – balanced, vitamins, minerals, proteins, carbohydrates, sugars, fats</p> <p>Drugs – caffeine, nicotine, alcohol, cannabis, cocaine, heroine</p>
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	Lifestyle – healthy
Electricity	<p>Electricity, Volts</p> <p>Series circuit</p> <p>Components: battery, bulb (lamp), bulb (lamp) holder, buzzer, crocodile clip, leads, wires, switch</p> <p>Describing words: brighter, duller, slow, fast, quiet, loud</p> <p>Conductor, insulator</p> <p>Resistance</p> <p>Effects of electricity: Light, sound, movement, heat</p>
Evolution and inheritance	<p>Evolution, evolve</p> <p>Natural selection</p> <p>Survival</p> <p>Reproduction</p> <p>Offspring, parents, siblings</p> <p>Environment</p> <p>Variation</p> <p>Fossils; ammonites, belemnites, micrasters, etc</p>
Light	<p>Simple comparisons: dark, dull, bright, very bright</p> <p>Comparative vocabulary: brighter, duller, and darker</p>

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	<p>Superlative vocabulary: brightest, dullest, and darkest</p> <p>Opaque, translucent, transparent</p> <p>Shadow – block, absence of light</p> <p>Reflect – bounce, mirror, reflection</p> <p>See – light source</p> <p>Sun – sunset, sunrise, position</p>
<p>Living things and their habitats</p>	<p>Classification</p> <p>Vertebrate, invertebrate</p> <p>Kingdoms: animal, plant, ‘micro-organism’</p> <p>Classes: amphibian, reptile, bird, mammal,</p> <p>Scales, feathers</p> <p>Flowering plant, non-flowering plant</p>

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