



Summerseat Steps in Vocabulary – Science

Green is core vocabulary (camping).

Black is introduced vocabulary (glamping).

| Summerseat Steps in Vocabulary – Science | | | | | | | |
|--|---|---|---|---|---|---|--|
| Green is core vocabulary (camping). | | | | Black is introduced vocabulary (glamping). | | | |
| Nursery | Reception | Key Stage One | | Lower Key Stage Two | | Upper Key Stage Two | |
| Working Scientifically (Steps in Skills) | | | | | | | |
| Same, different, change, see. | See, hear, feel, explore, changes. | Question, test, fair, measure, observe, group, investigate, sort, data, classify. | | Question, research, observation, fair test, variable, measure, thermometer, scales, data logger, temperature, chart, tally, bar chart, statistics, table, key, diagrams, conclusions, evaluating, amend, prediction, findings, evidence, process, explain, record, classify, present, accurate. | | Accuracy, precision, report, data – scientific diagrams, classification keys, scatter graph, bar graph, line graph. Further comparative tests, present, conclusion, degree of trust, identify, patterns, systematic, quantitative evidence, model, enquiry, conclusion, result, casual relationships. | |
| Biology (Steps in Knowledge) | | | | | | | |
| Animals (Including Humans) | | | | | | | |
| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
| Living things, plants. | Fruit, vegetable, healthy, exercise, teeth, gums, germs, sleep. | <u>Habitats and Food Chains</u> Indigenous, species, | <u>Animals – Classifying &</u> | <u>Digestive system and teeth</u> predator, prey, food chain, | <u>Skeleton, muscles, exercise and</u> | <u>Life cycles – plants and animals, Reproductive processes,</u> | <u>The circulatory system, Water transportation, Impact of exercise on body</u> |

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| Humans, animals, hair, eyes, skin. | heart rate, plaque, | microhabitats, habitat. dinosaur, rivers, woodland, ponds, sea, rainforest, desert, | <p><u>lifecycles</u></p> <p>fish, amphibians, reptiles, birds, mammals, carnivore, herbivore, omnivore, tame, wild, nocturnal.</p> <p><u>Exercising & keeping healthy</u></p> <p>healthy, diet, off-spring, exercise, proteins, carbohydrates, fats, nutrition, survival, hygiene,</p> <p>baby, toddler, teenager, adult, old age.</p> | producer, habitat | <p>digestion, digestive system, incisors, canine, premolar, molars, salivary gland, oesophagus, pancreas,</p> <p>Parotid glands, Submandibular glands, Sublingual glands, gustatory cells, small intestine, cystic duct, common bile duct, rectum, large intestine, signal, gall bladder, liver, stomach, mouth, protein, fruit, vegetables, calcium, wholegrain,</p> | <p><u>health</u></p> <p>nutrition, diet, skeleton, ribcage, pelvis, muscles, joint, tendons, cartilage, spine,</p> <p>herbivore, carnivore, omnivore, contract, relax, biceps, triceps, lungs, diaphragm, lung capacity, femur, skull, food chain, carbohydrates, proteins, dairy, fats, sugars, vitamins, minerals, fibre, growth, repair, health, energy, vertebrate, invertebrate, bone.</p> | <p><u>Classification of living things and the reasons for it, Changes as humans develop from birth to old age</u></p> <p>puberty, gestation, classification, reproduction, embryo, micro-organism, vertebrates, invertebrates, species,</p> | <p>blood vessels, atriums, cardiovascular, ultrasound, cardiologists, capillaries, pulse, ventricles.</p> <p>William Harvey, drugs.</p> <p><u>Evolution & Inheritance</u></p> <p>Charles Darwin, evolution, inheritance, adaptation, fossils, fossilisation, offspring, DNA, genes, extinct, inhabited, breed.</p> |
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Plants

| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
|---|---|--|---|---|--------|--|--|
| Plant, seed, bulb grow, pot, soil, water, living things | life-cycle, shoot, sun, living things, care, protect. | <p><u>How do plants grow? How do they stay healthy?</u></p> <p>Seeds, bulbs, grow, plant,</p> | <p><u>Parts of plants & trees</u></p> <p>Trunks, roots, petal, stem, leaves, crown, deciduous,</p> | <p><u>Basic structure and functions, life cycles, transportation of water,</u></p> | | <p><u>Life cycles – plants and animals, Reproductive processes,</u></p> <p>precision, reproduction,</p> | <p><u>Evolution</u></p> <p>Off spring, adaptation, genes.</p> |

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| | | shoot, buds, deciduous, evergreen, trunk, petals, branches, water, light, temperature. wild, environment, | evergreen, stem, bulb, habitat, oxygen. | classification of plants and animals nutrients, pollination, seed dispersal, fertiliser, seed, stigma, anther, formation | | micro-organism, species, fungi, bacteria, algae. monera, protista, | |
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Chemistry (Steps in Knowledge)

Materials

| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
|----------------------------------|--|---|-------|--------|---|---|--------|
| Material, plastic, paper, glass. | Material, Plastic, metal, wood, glass, water, rock, ice. | Everyday Materials wood, plastic, metal, glass, water, rock, squashing, bending, twisting, stretching. Waterproof, shiny, job, property. | | | States of matter Change state, solid, liquid, gas, water cycle, freeze, Celsius, evaporation, condensation, gas, oxygen, temperature, water vapour, precipitation, substance natural, manmade, molecule, atom, bonds., Fahrenheit, matter, lava, | Properties and changes in materials Solubility, conductivity, transparency, thermal, dissolve, thermal, filtering, melting, separate, reversible, irreversible, solution. | |

Physics (Steps in Knowledge)

Movement, forces & magnets

| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
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| Feel | Force, wind, fast, slow. | | <u>How do things move?</u> Move, faster, slower, push, pull. | | <u>Magnets</u> Contact, pulley, lift, magnet, attract, repel, magnetic, non-magnetic, pole, south pole, north pole, gravity. | <u>Gravity, Friction, Forces and motion of mechanical devices</u> Friction, lever, pulley, gear, magnet, north pole, south pole, attract, repel, air resistance, water resistance, gravity, parachute, Newton, Galileo. | |

Earth / Earth's Movement

| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
|-------------------------|--|-------|--|--------|--|--------|---|
| Sun, rain, snow, cloud. | Changes, Fog, Mist, Icey, Rainbow, Hailstone, Thunder, Lightning. Spring, Summer, Autumn, Winter, | | <u>Seasonal change</u> Spring, Summer, Autumn, Winter, Fall, weather, temperature, thermometer, weather symbol, day length. | | <u>Rocks</u> Solar System, Moon, Earth, Fossil, Sedimentary, Metamorphic, Igneous, crystal, organic matter, mineral. Newton. | | <u>Earth & Space</u> Movement, Planet, spherical, Solar System, Orbit, Astronomical, Crescent Moon, Gibbous Moon, Eclipse, Lunar. Star, Mercury, Venus, Earth, Mars. Jupiter, Saturn, Uranus, Neptune, Pluto. |

Electrical Circuits

| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
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| | | | <p><u>Introduction include Electricity</u> Electricity, appliance, series, circuit, electrical source.</p> | | <p><u>Electricity – Simple circuits & switches, conductors and insulators</u> circuit, buzzers, conductor, battery, cells, switch, socket, appliance, insulator, switch, wires, lamp, function.</p> | | <p><u>Electrical components, Simple circuits, Fuses and voltage</u> Complete circuit, series circuit, Circuit diagram, circuit symbol, components, motor, voltage, volt, current, short circuit, resistance, Thomas Edison positive/negative, connect/connection, loose connection, turbine, fuses terminal, generator.</p> |
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Light & Seeing

| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
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| | | | Electric lights, flames, sun, light, dark, travel, sight. | <p><u>Light & dark – reflections & shadows</u> reflection, shadows, light source, opaque, refraction, periscope, nocturnal, orbits, convex, specular, diffuse. Surface, protection</p> | | <p><u>How light travels, Reflection, Ray models of light</u> Optical instruments, periscope, telescope, light wave, light source, concave, convex, filters, lens, retina, cornea, iris, pupil.</p> | |

Sound

| Nursery | Reception | KS1 A | KS1 B | LKS2 A | LKS2 B | UKS2 A | UKS2 B |
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| | | | Sound, sound source, hear. | <p><u>Sound vibrations, pitch & volume</u></p> | | | |

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| | | | | vibrating, pitch, volume, insulation, cochlea, auditory, frequency, hammer. | | | |
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Green is core vocabulary.

Black is introduced vocabulary.