



Science Vocabulary Progression

| | EYFS | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
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| Working Scientifically | <p>Notice Observe Explore Senses – see, smell, hear, touch Questions – what, how and why Explain/talk Non-fiction Choose Experiment</p> | <p>Questions/Answers Test Observe/observe over time Identify compare sort group equipment Record Gather Evidence measure patterns Results Pictograms Simple chart and table describe Similar/similarities different/differences reason</p> | <p>Questions/Answers Test / enquiries Observe/observe over time Identify compare /contrast sort group equipment Record Gather Evidence measure patterns/relationships Results /data Pictograms Simple chart and table describe Similar/similarities different/differences Reason Predict Tally chart bar chart venn diagram Secondary sources</p> | <p>relevant questions reasoned prediction Appropriate enquiry Comparative tests Keys fair tests systematic and careful observations Accurate measurements Standard units Data collection Dataloggers Simple conclusion findings labelled diagrams keys analyse Improve Working methods Presentation/present success plan</p> | <p>relevant questions reasoned prediction Appropriate enquiry Comparative tests Keys fair tests systematic and careful observations Accurate measurements Standard units Data collection Dataloggers Simple conclusion findings labelled diagrams keys analyse Improve Working methods Presentation/present success plan variables classification keys classify</p> | <p>Controlled/independent/dependent variable Time graph scatter graphs line graphs support/not support independent decisions scientific equipment systematic precision/accuracy complex data report reliability justify link ideas and knowledge fact opinion causal relationships labelled scientific diagrams reliability/reliable repeat scientific breakthroughs causal relationships degree of trust refutes</p> | <p>Controlled/independent/dependent variable Time graph scatter graphs line graphs support/not support independent decisions scientific equipment systematic precision/accuracy complex data report reliability justify link ideas and knowledge fact opinion causal relationships labelled scientific diagrams quantitative measurements reliability/reliable repeat scientific breakthroughs causal relationships degree of trust refutes pie charts quantitative data Qualitative data</p> |
| Seasonal Change | <p>Season Spring, summer, autumn, winter Weather – hot cold, sun, snow, wind, rain , temperature Leaves</p> | <p>deciduous and evergreen trees. Weather: warm, cool, sunny, cloudy, hail, sleet, frost, fog/mist, icy/ice, rainbow, thunder, lightning, storm, blizzard, freezing,, cool, forecast, light, dark, day, night, daytime, sunrise, sunset, day length.</p> | | | | | |
| Plants | <p>Seeds Grow Water Flowers Trees Water Forest Leaf/leaves</p> | <p>Deciduous trees, Evergreen trees, flowering plants, trees , wild plants, garden plants , Vegetables , leaf/leaves , Flowers/ blossom, petals, fruit trunk , branches , Stem , Roots , buds , bark, earth, soil , living, growing Names of trees and plants in the local area</p> | <p>seedling; seed; bulb; seedling; mature plant; water; light/dark; temperature; grow(th); healthy; unhealthy; suitable conditions; germinate; live; living; non-living; shade, sun, cool, die/dying - limp, crispy, hot/warm/cool/cold, damp/wet/dry grow,</p> | <p>hotter/warmer/cooler/colder/ /brighter, damper/ wetter/drier , healthy, structure of plant , Functions of parts of the plant , air , nutrients , fertiliser , Transported , Botanist, pollination Life cycle, Germination , Seed formation , Seed dispersal, Photosynthesis</p> | | | |
| Animals, including Humans | | <p>Animals, Wild animals, domestic animals, pets Tail, wing , legs, claws, fin , scales, feathers , fur</p> | <p>Offspring Reproduce babies young grow/ growth change human Adults older/younger Baby,</p> | <p>skeleton, bones, joints, vertebrates, invertebrates, muscles, pull, contract, relax, support; protection;</p> | <p>canine, incisor, molar, premolar, Rip, tear, chew, grind , cut, slice , brush , floss , dentist , root; gum;</p> | <p>Foetus, Embryo, Womb, Gestation, Growth, Development, Puberty, Hormone, Physical, Emotional, Human development,</p> | <p>Oxygenated, Deoxygenated, Valve, Exercise, Respiration Circulatory system, heart, lungs, blood vessels, blood, artery, vein,</p> |

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| | | /hair, Beak, paws, hooves, carnivore , herbivore, Omnivore Fingers, hands , skin, Tongue, Mouth, nose, ear, eyes, face , Legs, Feet , Human body, Head , neck , Arms, Elbow, Legs, Knees , Toes , shoulders , ankles | toddler, child, teenager, adult lifecycle (e.g. egg - caterpillar, pupa, butterfly - , egg - chick - chicken, spawn-tadpole – frog, lamb- sheep etc.) survival basic needs water, food, air/oxygen breathing exercise Food types (e.g. meat, fish, bread and rice) Hygiene, clean, Wash, germs Balanced diet Healthy /unhealthy | movement; organs; structure; Skeletal system, attached , sockets tendons , ligaments , Cartilage skull , Lower jaw , Collar bone / clavicle Breast Bone , ribs , spine , knee cap/patella femur; tibia; fibula, radius; ulna; humerus; Food groups; balanced diet; protein (food for growth); fats & carbohydrates (foods for activity); vitamins, minerals and fibre (foods for health); whole grain; energy; carnivore; omnivore; herbivore; vegetarian; Nutrients, nutrition, water, fibre, sugars | jaw bone; tooth decay; plaque; enamel; Digestive system, digestion, tongue, mouth, teeth, oesophagus, stomach, small intestine, pancreas, large intestine, rectum, anus, nutrients, - mixes, moistens, saliva, transport, Acid Enzymes , vitamins | Baby, toddler, child, teenager/adolescent, mature adult, elderly , length , Mass, Grows/grow /growing | capillary, digestive, skeletal, muscular, transport , nutrients, water, oxygen, alcohol, drugs, tobacco, smoking, internal organs, diet, exercise, double circulation, pumps, carbon dioxide, substances, misuse, blood cells; red cells; white cells; plasma; platelets; haemoglobin; |
| Living Things and Habitats | Habitats Pets Wild Animals Amazon Africa Savannah Grasslands Antarctica Life cycle Chicks/Ducklings Chicken/Hen/Duck Eggs Hatch Warmth Wildlife | | Living, dead, never been alive, food, food chain, basic needs, water , shelter, depend, conditions, shade, compare , sort group Habitats - pond, woodland, meadow, ocean, rainforest, sea shore, desert micro-habitats - under log, under stones, under bushes damp/wet/ dry dark/light suited/suitable. | | Classification, Classification keys, Groups, Environment, Habitat, Ecosystem, plants - flowering and non-flowering, Animals, fish, Amphibians, Reptiles, Birds, Mammals, Vertebrates Invertebrates, Human impact, Positive (nature reserves, planned parks, garden ponds), Conservation, Negative - population, deforestation, pollution, litter producer, Consumer, Predator, prey, food chain, Sun | Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings, Pollination, Dispersal, reproduction, cell, , male, female, young, mammal, metamorphosis, amphibian, fish, reptile insect, egg, embryo, bird, plant, grow; genetic information; fruit; seed; | insects, spiders, snails, worms, Arthropods - arachnid, mollusc, insect, crustacean , flowering and non-flowering, Organisms, Classification, Characteristics , plants, Classify, compare, bacteria, microorganism, Linnaean, Funghi, yeast, virus, ; phylum; class; order; family; genus; species; |
| Materials | Solid Liquid Ice Melt Heat /Hot Cooking | Material (wood, plastic, glass, metal, water, rock, paper, fabrics, elastic, foil,, wool, rubber, brick) Man-made, natural object Properties (hard, soft, stretchy, stiff, shiny, dull, rough, smooth, bendy, not bendy, waterproof, not waterproof, breakable, see through, not see through, Strong, weak, absorbent, not absorbent, breaks/tears,) compare , group, sort | Material (card/cardboard, clay) Properties of materials –opaque, transparent, translucent, reflective, non-reflective, flexible, rigid, shape changed , push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending and stretch/stretching, Waterproof, absorbent , hard/soft , strong/weak, rough/smooth suitable/unsuitable, use/useful, fit for purpose strong/weak, rough/smooth | | States of matter - solids hold their shape; liquids form a pool not a pile; gases escape from an unsealed container. particles, state, materials, properties, matter, melt, freeze, water, ice, temperature, degrees Celsius, process, state change, melting, freezing, melting point, boiling point, steam, water vapour heat/heated/heating, cool/cooled/cooling, melting, melting point, , solidify, boil, condensation, evaporation, water vapour, energy, precipitation, collection, water cycle , transpiration | Properties: hardness (hard, soft, stretchy, rigid, flexible, waterproof, absorbent, strong, weak, rough, smooth) solubility, transparency (reflective, transparent, opaque translucent) conductor (thermal and electrical conductivity), insulator magnetic response States of Matter: Solid , liquid, gas, particle, change of state solution, soluble , insoluble , solute, solvent , Mixture Reversible changes - dissolving/dissolve , mixing, evaporation/evaporating, filtering/filter, separating, sieving, melting, condensation/condensing Irreversible changes - new material, burning, rusting, cooking, chemical change | |
| Evolution and Inheritance | | | | | | | Adaptation, Evolution, Characteristics, Reproduction, Genetics, Variation, Inherited, Environmental, Mutation, Competition, Survival of the Fittest, Evidence, natural selection, Offspring, vary, suited, adapted, environment, species, advantages, disadvantages, living |

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| | | | | | | | things, organisms, identical/non identical, Learned behaviour, selective breeding, generation/generations |
| Rocks | | | | Rocks, stone, pebble, boulder, grain, crystals, layers, marble, chalk, granite, sandstone, clay, limestone, slate, igneous, metamorphic, sedimentary, hard, soft, texture, absorb water, permeable, impermeable, porous, weathering, erosion , rough, smooth , Purpose/uses of rock: buildings, gravestones fossil, Mary Anning, extinct, organic matter, non-organic matter, soil, top soil, sub soil, base rock, peat, sandy/chalk/clay soil | | | |
| Forces and Magnets | | | | force/ forces Friction Push/pushing / pull/pulling Surfaces- texture Magnetic force distance magnet/magnets Strength bar magnet ring magnet Button Magnet Horseshoe agent Strength Attract repel Magnetic Non-magnetic Magnetic poles: north and south Like Unlike Resistance Contact force Non-contact force Magnetism | | Fall Earth Gravity theory of gravitation gravitational force air resistance thrust upthrust Water resistance buoyancy Mechanisms brake Springs levers fulcrum/pivot Pulleys Gears Contact force Non-contact force Effect: move/motion, accelerate/faster , decelerate/slower, stop/stationary, direction Surface area Balance streamlined Transfer | |
| Light | | | | dark, Absence of light, natural light source, artificial light source, luminous, non-luminous Reflect/reflective/reflection, shiny, matt, mirror, bounce, visible, beam, sun, glare, travel, surface opaque, shadow, block, transparent, translucent, solid, distance, size sunlight, dangerous, UV light, sunglasses, protect/protection | | | Straight lines, Light rays. - Light, Shiny, Matt, Surface, Light , light Sources, dark/darkness, reflect/reflective/reflection , mirrors , Shadow, block/blocked, direct/direction, Transparent , Opaque , translucent, Natural Light: star, sun, moon, shadow , Artificial Light: torch, candle, lamp, Periscope , rainbow , Spectrum , filters , object , absorb , Travel, refraction, prism, |
| Electricity | | | | Electricity, appliances, devices, mains, crocodile clips, wires, bulb, battery cell, battery holder, motor, buzzer, conductor, electrical conductor, component. electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, bulb, insulator, metal, non-metal , loose connection , bright/dim switch - open/closed Conductor - metal and water insulator - wood, rubber, plastic and glass danger , Electrical safety , Warning sign | | | Series circuit Circuit symbol, Fuse, Recognised symbols , Terminal Working safely , Voltage , current , Resistance , Short circuit , Faster/slower, Quieter/louder Electrical current; safety precautions; electrocution; electric shock;; watts; Ohms; resistance; amps; earth; live |

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| Sound | | | | | Sound, Sound source / object, Noise, Vibrate/vibration /vibrating/, strength of vibrations, medium: solid, liquid, gas, air , ear , hear , Travel , Pitch, Tune , high/low Volume, quiet, loud/louder/ ,quiet, faint/fainter, muffle, insulation , instrument, Percussion , strings , brass, Woodwind , tuned instrument | | |
| Earth and Space | | | | | | Earth, Sun, Moon, Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune, planets, solar system, universe, Pluto, dwarf planet, Celestial Body Spherical, Solar system, rotates/rotation, star, orbits, planets, spin, axis, geocentric, heliocentric Day, Night, Phases of the Moon, star, constellation, waxing, waning, crescent, gibbous, satellite sundials shadow clock eclipse astronomer Astronomical clocks | |