

STRATFORD-SUB-CASTLE SCIENCE SUBJECT PROGRESSION – LOWER SCHOOL – VOCABULARY

| Lower school | Year 1 | Year 2 | Year 3 |
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| Living things and their habitats | plants, animals, habitats, living, alive, dead, never alive | seashore, ocean, woodland, rainforests, conditions (eg dry, damp, wet), micro-habitats, shelter | food chain, food source, predator, prey, producer |
| Plants | plant, flower, deciduous, evergreen, wild plants garden plants, flowering plants | stem, trunk, leaf/leaves, branch, flower, seed, bulb, seedling, fruit | temperature, water, light, mature plant, germinate / germination, pollination , seed dispersal |
| Seasonal Changes | spring, summer, autumn, winter, weather, snow, rain, sun, wind | temperature, longer, shorter, light, days, hours, months | light, dark , shadow, moon , movement |
| Light | light, light source, names of light sources, torch etc, dark / darkness | reflect, reflective, mirror, direction of light, bright, dim, sunlight | shadow, block / absorb, light beam |
| Everyday materials | object, material, wood , plastic, glass, metal, solid, liquid, gas, man-made, natural, bendy , stiff, soft , hard, rough, smooth | absorbent, waterproof, use / useful, characteristics, properties, rigid, flexible, strong weak, suitability , purpose | squashing, stretching, bending, twisting, properties, transparent , opaque, reflective, non-reflective, translucent, shape, changes properties |
| Rocks | rock, stone, pebble, boulder, name common rocks/soil types, marble, chalk, clay, sandy, soft , hard, rough, smooth | soil, fossil, grains, crystals, layers, texture molten magma | erosion, strata, particles, porous permeable / impermeable |
| Animals including humans | meat-eaters, plant feeders, habitat, wild animals, pets - wing, claw, tail, beak, fur, feather, fin, scales | adult, young, baby, toddler , child, teenager, grow, offspring, survival, basic needs – water, food, air | nutrition, nutrients, dietary fibre, balanced diet, carbohydrate, protein. vitamins, minerals, fat |

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| | senses - hear/hearing, see/seeing, touch / touching, taste/tasting body parts – mouth, head, body, neck , arms, eyebrows, eyelashes, legs, elbows, knees, face, eyes, ears, teeth | nutrition, exercise, unhealthy, healthy | skeleton, muscles, support, protection. movement, vertebrates, invertebrates, endoskeleton, exoskeleton |
| Forces and magnets | magnet, magnetic force, strength, attract, repel, poles, north pole, south pole | bar magnet, ring magnet, button magnet, horse-shoe magnet common magnetic and non-magnetic materials | force, gravity, push / pull, direction of force, air resistance, streamlined, friction force-meter, constant force, non constant force, newton meter, newton |

STRATFORD-SUB-CASTLE SCIENCE SUBJECT PROGRESSION – UPPER SCHOOL – VOCABULARY

| Upper School | Year 4 | Year 5 | Year 6 |
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| Living things and their habitats | Environment, human impact, population, deforestation, development, pollution, positive human impact, negative human impact, variation, characteristics | seed dispersal, seed formation, pollen, stamen, stigma, anther, filament, style, sepal, carpel, reproduction, sexual, asexual, germination, pollination, plantlets eg: spider plants runners eg: strawberry birth, fertilisation, insect, eggs, live young, egg cell, embryo | classification keys, vertebrates, invertebrates, arachnid, mollusc, insect and crustacean organism, micro-organism, bacteria, microbes, fungus |

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| Animals including humans | <p>digestive system, digestion, saliva, oesophagus, stomach, small intestine, large intestine, swallowing, chewing, rectum, anus, faeces</p> <p>consumer, predator, prey, producers,</p> <p>canines, incisors, pre-molars, molars, cavities, dentine, plaque, pulp-cavity, fluoride , tooth decay, gums, nerves,</p> <p>enamel, chemical enzymes breakdown food, gastric juices, reabsorption of water</p> | <p>ovum, zygote , fallopian tubes, gestation, hormones, embryo, ovary</p> <p>placenta, penis, testes, vagina, uterus , fertilisation , menstrual cycle, puberty</p> | <p>circulatory system, blood vessels, capillaries, arteries, veins,</p> <p>red blood cells, white blood cells, oxygen, carbon dioxide, lungs,</p> <p>air sacs, ventricles, aorta,</p> <p>wind pipe, diaphragm,</p> <p>bronchi, pulmonary vein / artery,</p> <p>lifestyle, drugs, diet, heart rate, clotting, plasma , gaseous exchange, oxygenated / deoxygenated, respiratory system, aerobic respiration, trachea, haemoglobin, bronchioles,</p> <p>alveoli</p> |
| Evolution and Inheritance | | | |
| Sound | <p>Sound, sound source, noise, vibrate / vibration,</p> <p>Travel, sound wave</p> | <p>volume, loud / quiet, tune, echo,</p> <p>tuning fork</p> | <p>pitch, tune, high / low, echo,</p> <p>tuning fork</p> |
| Electricity | <p>electricity, electrical device / appliances, mains, plug, circuit symbol, cell, battery, wire, bulb, switch, buzzer, motor, connection</p> | <p>components, conductor, insulator</p> <p>ram</p> | <p>terminal. voltage, current,</p> <p>resistance, circuit, diagrams , parallel circuits , series circuit</p> |

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| Earth and Space | Earth, sun, moon, celestial body, sphere / spherical , rotation, spin, phases of moon, axis / axes, night / day, orbit | solar system, planets, Mercury, Mars, Neptune, Venus, Jupiter, Saturn, Pluto, Uranus | time zones, geocentric model, heliocentric model, elliptical orbit, revolve, shadow clocks, sundials, asteroids, comets, galaxy, meteors, light years |
| Light | lenses, optics | prism, rainbow, refraction, spectrum | absorption, transmission |
| States of matter | air, oxygen, powder, grain / granular, gaseous, particles | changes state, solidify, boiling point, melt, freeze, boil, evaporation, condensation | water cycle, heating /cooling, degree celsius, precipitation, transpiration, energy transfer |
| Properties and changes in materials | solubility, electrical conductivity, thermal conductivity, new material, buoyancy suspension | dissolve, solution, soluble, insoluble, solute, solvent, mixture, filtering, sieving | reversible change, irreversible change, combustion, oxidisation, chemical reaction, residue, filtrate, burning, rusting |
| Forces | transference of force and motion | air resistance, water resistance, drag forces | mechanisms, levers, pulleys, gears, springs |