

Stratford-sub-Castle Primary School - Science knowledge vocabulary progression v 2.0

KS1	Butterfly (Year 1)	Owl (Year 1 / Year 2)
Living things and their habitats		living, never living, dead, conditions, shelter, movement, sensitivity, excretion, growth, reproduce, nutrition, respiration, habitat, organism, food chain, environment, micro-habitat, desert, rainforest, woodland, urban, rural.
Plants	roots, leaves, stem, sunlight, seed, natural, deciduous, evergreen, branches, trunk, bark, petal, sown, moist, survive, wild, bulb.	germination, growth, survival, reproduction, carbon dioxide, nutrition, seedling, sprout, respiration, sensitivity, excretion.
Seasonal Changes	seasons, spring, summer, autumn, winter, weather, wind, rainy, cloudy, sunny, snowy, stormy, foggy, bare, flourish.	temperature, length, varies, measure, longer, shorter, light, days, hours, months, calendar, weather forecast, hibernation, conserving, gather, underground, nests, meteorologist, motion, speed, scale, gust, breeze, liquid.
Everyday materials	scientist, material, object, properties, materials, float, sink, heavy, light, hard, soft, waterproof, absorbent, transparent, opaque, flexible.	purpose, suitability, solid, squash, bend, twist, stretch, elasticity, measure, absorbent, waterproof, synthetic materials, man-made, raw materials, natural, heating.
Animals including humans	body, skeleton, muscle, brain, heart, lungs, senses, sound, volume. living, growing, air, waste, reproduce, survive, vertebrate, invertebrate, spine, protection, crustaceans, arachnids, backbone, insects, amphibians, reptiles, gills, warm-blooded, cold-blooded, mammals, carnivore, herbivore, omnivore.	basic needs, nutrition, exercise, movement, physical activity, healthy, carbohydrate, protein, vitamins, minerals, diet, elderly, offspring, hygiene, germs, mould, nutritionist, recover, epidemiologist, scientist.

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KS2	Woodpeckers (Year 3/Year 4)	Fox (Year 4/Year 5)	Robins (Year 5/Year 6)
Living things and their habitats		classification, classification keys, vertebrates, invertebrates, habitat, environment, Venn Diagram, Carroll Diagram, deforestation, human impact, pollution, positive impact, negative impact, ecosystem.	Classification: organism, micro-organism, bacteria, characteristics, classify, microscope, species, taxonomist, fungus, microbes. Lifecycles: amphibian, asexual reproduction, fertilise, genes, gestation, inherit, lifecycle, mammal, metamorphosis, offspring, pollination, sexual reproduction.
Light	light, light source, dark, opaque, pupil, retina, ray, reflection, reflect, reflective, shadow, translucent, transparent, absorb, night, day, axis		lenses, optics, periscope, prism, rainbow, refraction, spectrum, absorption, transmission
Forces (and magnets)	magnet, force, repel, attract, thrust, friction, poles, permanent, temporary, field lines, electromagnetic.		transference of force and motion, newton meter, newtons, mass, weight, grams, air resistance, water resistance, drag forces, gravitational force, magnetic force, friction, upthrust, contact / non-contact forces, balanced / unbalanced, mechanisms, levers, pulleys, gears, springs, fulcrum.
Plants	flowering, pollination, seed dispersal, transpiration, stomata, conditions, fertilisation, sepals, ovule, ovary, style, stigma, petal, filament, anther, adaptations, absorb.		
Animals including humans	skeleton, muscles, support, tendons, joints, protection movement, contract, vertebrates, invertebrates, endoskeleton, exoskeleton. nutrition, nutrients, dietary fibre, balanced diet, carbohydrate, protein, vitamins, saturated fats, unsaturated fats, minerals.	digestive system, digestion, saliva, oesophagus, stomach, small intestine, large intestine, swallowing, chewing, rectum, anus, faeces consumer, predator, prey, producers, food chain, food web canines, incisors, pre-molars, molars, cavities, dentine, plaque, pulp, centenum, fluoride ,tooth decay, gums, nerves, enamel, chemical enzymes breakdown food, gastric juices, reabsorption of water.	Human changes: ovum, zygote , fallopian tubes, gestation, hormones, embryo, ovary placenta, penis, testes, vagina, uterus , fertilisation, menstrual cycle, puberty Circulatory system & lifestyles: circulatory system, blood vessels, capillaries, arteries, veins, red blood cells, white blood cells, oxygen, carbon dioxide, lungs, air sacs, ventricles, aorta, wind pipe, diaphragm, bronchi, pulmonary vein / artery, pulse, pulse rate. lifestyle, drugs, side-effect, sugars, starches, diet, heart rate, clotting, plasma , gaseous exchange, oxygenated / deoxygenated, respiratory system,

			aerobic respiration, trachea, haemoglobin, bronchioles, alveoli.
Evolution and Inheritance			adaption, characteristics, DNA, evolution, genetics, inheritance, inherit, natural selection, organism, trait.
Sound		amplitude, decibel, frequency, pitch, sound waves, source, travel, vibrations, volume, cochlea, ear drum, hammer, anvil, stirrup, auditory nerve.	
Electricity		electrons, electricity, electrical device/appliance, mains, plug, circuit symbol, cell, battery, wire, bulb, switch, buzzer, motor, connection, components, conductor, insulator.	terminal. voltage, current, resistance, circuit, diagrams, parallel circuits, series circuit.
Earth and Space		solar system, planets, Mercury, Mars, Neptune, Venus, Jupiter, Saturn, Pluto, Uranus geocentric model, heliocentric model, elliptical orbit, Earth, sun, moon, celestial body, sphere / spherical, rotation, phases of moon, axis / axes, night / day, orbit.	
States of matter		air, oxygen, powder, grain / granular, gas, particles, water cycle, degree celsius, precipitation, solidify, boiling point, melt, evaporation, condensation.	
Properties and changes in materials		soluble, insoluble, electrical conductor, thermal conductor, suspension, dissolve, solution, filtering, sieving reversible change, irreversible change, chemical reaction, transparent, magnetic.	
Rocks	rock, stone, pebble, boulder, marble, chalk, clay, sandy, igneous rock, metamorphic rock, sedimentary rock, weathered. soil, fossil, grains, crystals, layers, texture molten magma. erosion, strata, particles, porous, permeable / impermeable.		