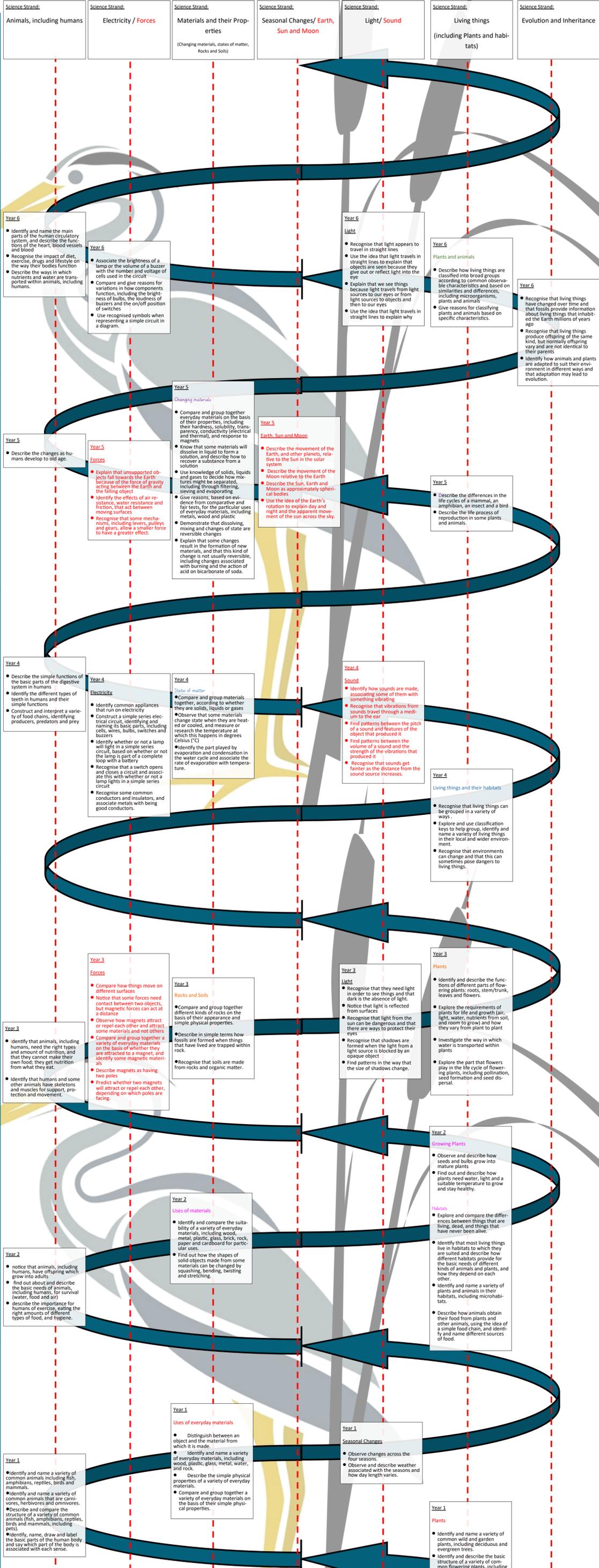


Progression in the Curriculum:

SCIENCE

Scientific Enquiry fluid throughout all strands of Science.

Year Group	Key Vocabulary
KS3	
6	<p>Animals including humans circulatory system, blood, blood vessels, pumps, oxygen, carbon dioxide, lungs, nutrients, water, diet, exercise, drugs, lifestyle</p> <p>Electricity electrical circuit, complete circuit, circuit, diagram, circuit, symbol, components, cell, battery, positive/negative, terminal, connection, loose connection, short circuit, wire, crocodile clip, brightness, switch, buzzer, volume, motor, insulator, voltage, current, resistance, danger, series</p> <p>Light travels, straight, reflection, light source, object, shadows, mirrors, periscope, rainbow, filters</p> <p>Plants and Animals Organism, micro-organism, fungus, mushrooms, classification, keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates, invertebrates</p> <p>Evolution and Inheritance evolution, suited/ suitable, adapted/ adaptation, offspring, characteristics, vary/ variation, inherit/ inheritance, fossils</p>
5	<p>Animals, including humans Age, Aging, Birth, Baby, Toddler, Child, Adolescent, Adult, Old age, Pensioner, Similarities, Differences, Puberty, Growth, Height, Weight, Changes, Development, Timeline, Female, Male, Life expectancy, Hygiene, Skin, Wrinkles, Muscles, Organs, Senses</p> <p>Forces Fall, pull, push, gravity, Newton, force, air resistance, water resistance, friction, force, pairs, greater force, lesser force, equal, moving, surfaces, mechanisms, levers, pulleys, gears, weight, distribution, magnetic force, magnet, attract, repel, positive, negative, effect, accelerate, decelerate, upthrust, aerodynamic, momentum, drag, streamlined, motion, buoyancy, mass</p> <p>Changing Materials soluble, insoluble, reversible, irreversible, dissolve, filter, separate, sieve, filtration, mixture, permanent, molecule, solution</p> <p>Earth, Sun and Moon Earth, planets, Sun, solar, system, Moon, celestial body, sphere/spherical, rotate/ rotation, night and day, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, 'dwarf' planet, orbit, revolve, geocentric model, heliocentric model, shadow, clocks, sundials, astronomical clocks, equator, astronomy, stars, universe, galaxy, crescent, waxing, waning, full moon, new moon, eclipse, orbit</p> <p>Living Things/Habitats Environment, Classification, Species, flowering, non-flowering, plants, animals, life cycle, reproduction, asexual, oceans, desert, prehistoric, similarities, differences, germination, pollination, stamen, stigma, fertilisation</p>
4	<p>Living Things/Habitats Environment, Classification, Species, flowering, non-flowering, plants, animals, population, development, deforestation, extinct, endangered, hunters, pollution, litter, food, shelter, humans, water, poaching, genetics, evolution, nature reserves, protected</p> <p>Electricity Appliances, circuit, cell, wire, bulb, buzzer, danger, safety sign, insulators, wood, rubber, plastic, glass, conductors, metal, water, switch, open circuit, closed circuit, components, plug, motor, mains, current, energy, charge, watt, voltage, solar power, renewable, negative charge, positive charge, wind power, fossil fuel, sustainable, electric shock, electrocute, appliances, battery powered</p> <p>States of Matter particles, air, oxygen, powder, grain/granular, crystals, ice, water, steam, water vapour, heated/heating, cooled/cooling, temperature, degrees, Celsius/Fahrenheit, melt, freeze, solidify, melting point, molten, boil, boiling point, condensation, heat, change of state, evaporate, condense, thermometer, water cycle</p> <p>Sound sound, sound source, noise, vibrate, travel, solid, liquid, gas, pitch, tune, high, low volume, loud, quiet, fainter, muffle, vibrations, insulation, instrument, percussion, strings, brass, woodwind, drum instrument, medium, soundproof, pluck, strum, play, shake, soundwaves, speed of sound, ear, eardrum, hearing/hearing, tempo, listen, echo, distance</p> <p>Animals, including humans Digestion, chemical, mouth, Gums, lips, Tongue, Molars, saliv, Teeth, Incisors, Cutting, slicing, Canines, ripping, tearing, Molars, Chewing, grinding, Wisdom, teeth, swallow, oesophagus, transports, stomach acid, Enzymes, small intestine, large intestine, carnivore, herbivore, omnivore, brush, floss, Internal organs, food chain, sun, secondary, prey, predators, Consumer, Primary, Secondary, Tertiary</p>
3	<p>Animals including humans Nutrition, vitamins, minerals, fat, protein, carbohydrates, fibre, water, diet, nutrition, skeletons support, protection, skull, brain, ribs, heart, lungs, muscles, movement, pull, contract, relax</p> <p>Forces Force, push, pull, open, surface, attract, repel, magnetic poles, north, south, metal, iron, steel</p> <p>Rocks and soils Pebble, boulder, soil, fossil, grains, crystals, texture, marble, chalk, granite, sandstone, slate, sandy soil, clay, soil, 'chalky' soil, pumice, absorbent, sedimentary, organic matter, buildings, appearance, physical</p> <p>Light Light, see, dark, reflect, reflective, surface, natural, star, sun, moon, artificial, torch, candle, lamp, transparent, translucent, protecting eyes</p> <p>Plants structure – flowering plants, function – nutrition, support, makes own food requirements for life and growth – nutrients, room to grow, fertiliser, life cycle – flowers pollination, seed formation, seed dispersal</p>
2	<p>Use of materials Squash, bend, stretch, elasticity, Wood, metal, plastic, natural, twist, glass, fabric, rough, smooth, tough, fragile, manipulate, manufactured, properties, group, change, solid, liquid, gas</p> <p>Growing and Staying Healthy Growth, health, unhealthy, variety, grow, small, bigger, exercise, living, process, animals, plants, humans, germs, medicine, move, life cycle, most, more, diet</p> <p>Habitats Habitat, living, survival, damp, dark, light, dependent, micro-habitat, food chain, dirt, logs, leaf litter, stony, path, under bushes, shelter, shelter, sparse, woodland, ocean, rainforest, conditions, climate, hot, cold, dry, wet, bright</p> <p>Growing Plants light, suitable, temperature, grow, germination, reproduction, healthy</p>
1	<p>Uses of everyday materials Wood, plastic, glass, metal, water, rock, brick, paper, fabric, foil, rubber, wool, elastic, sand, hard/soft, stretchy/stiff, shiny/dull, rough/smooth, bendy/ridged, waterproof, magnetic, strong</p> <p>Seasonal Changes Spring, summer, autumn, winter, sun, wind, rainbow, cloud, rain, storm, lightning, snow, fog, hail, daylight, darkness, morning, night time, day time</p> <p>Animals including Humans Mammals, amphibians, reptiles, birds, fish, insects, pets, carnivores. Herbivores, omnivores, leg, arm, elbow, head, ear, nose, back, wings, beak</p> <p>Plants Wild plant, garden plant, deciduous, evergreen, leaves, flowers, blossom, petals, fruit, roots, buds, seed, trunk, branches, stem, bud, water.</p>



Year Group	Wider Opportunities and Experiences
6	<p>Science Week</p> <p>Residential PGL trip</p> <p>Sports day</p> <p>Animal/ owls visit</p>
5	<p>Science Week</p> <p>Royal Observatory</p> <p>Secondary Science visit</p> <p>Animal/ owls visit</p>
4	<p>Science Week</p> <p>Epping Forest trip</p> <p>Local area – litter pick</p> <p>Animal/ owls visit</p>
3	<p>Science Week</p> <p>Eastbury Manor and Gardens</p> <p>Animal/ owls visit</p> <p>Trip to a local beach?</p>
2	<p>Science Week</p> <p>Maritime Museum</p> <p>Animal/ owls visit</p> <p>Trip to local National Trust park</p> <p>Bug hotel and growing plants within school</p>
1	<p>Science Week</p> <p>Barley Lands Farm</p> <p>Animal/ owls visit</p> <p>Trip to the chase</p> <p>Growing plants within school</p>