

Science Stage 4 Deepening

Level three Classes: SLD- S2/S3	Autumn	Spring	Summer
2022-2023	<p><u>Reproduction Autumn 1</u> Offspring, reproduction, growth, child, young/old stages</p> <p>(examples - chick/hen, baby/child/adult, caterpillar/butterfly),</p> <p>Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings, characteristics, suited, adapted, environment, inherited, species, fossil</p>	<p><u>States of Matter and Separating Mixtures Spring 1</u> Solid, liquid, gas, state change, melting, freezing,</p> <p>melting point, boiling point, evaporation, temperature, water cycle</p> <p>Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve, reversible/non-reversible change, burning, rusting, material</p>	<p><u>Energy Changes and Transfers- Summer 1</u> warmer, warmth, water-power, waves, weather, wind, resources, rise, source, steam, temperature, thermometer, transfer, insulation, light, liquids, melting, metal, movement, non-renewable, oil, oxygen, polystyrene, power, radiation, radiator, reflection, release, electrical, energy, energy transfer, environment, evaporation, expand, flame, flow of heat, fluids, foods, freezing, freezing point, fuel, gases, heat energy, hottest, increases, renewable, reservoir, transform, trapped air, turbine, vapour, wall insulation, Absorbed, Alternative, Arranged, Atmosphere, Biomass, boiling point, carbon dioxide, Celsius, change state, , cooling, cycles, disadvantages,</p> <p>combustion, condensation, conduction, conservation, contract, convection geothermal, infra red, joules, kinetic, generator,</p>
	<p><u>Health and the Human Body- Autumn 2</u> exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat,</p>	<p><u>Chemical Reactions- Spring 2</u> Hot, cold, energy, fuel, reaction,</p>	<p><u>Forces Summer 2</u> Force, push, pull, twist, magnet, strength, weight, spring, lever, gear, pulley</p>

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	<p>fish, vegetables, bread, rice, pasta)</p> <p>Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory, system, diet, exercise, drugs, lifestyle, Nutrition, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints nutrients, carbohydrates, sugars, protein,</p>	<p>Thermal, endothermic, exothermic</p> <p>Base, bond, catalyst, combustion, complete combustion, water vapour, Endothermic, Exothermic, Reaction, Hydrocarbon, compound, hydrogen, carbon, incomplete combustion, Limewater, Calcium hydroxide solution, carbon dioxide. Neutralise, neutral, acidic alkaline, Oxidation, oxygen, electrons substance, chemical reaction., Reactants, thermal decomposition, word equation</p>	<p>bar magnet, Newton, Isac Newton, ring magnet, button magnet, horseshoe magnet, contact force, Galileo, non-contact force, magnetic force, friction, Air resistance, water resistance, force meter, reliable,</p> <p>, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole</p>
<p>2023-2024</p>			
	<p><u>Inheritance and Evolution- Autumn 1</u></p> <p>characteristics, suited, adapted, environment,</p> <p>reproduction, Fossils, Offspring, sexual</p> <p>inherited, species, vary,</p>	<p>Earth and Atmosphere Spring 1</p> <p>atmosphere, global warming: carbon dioxide, cementation, chemical weathering, core, crust, weathering, recycling,</p> <p>sedimentary rocks, sediments, sustainability, transportation, deforestation: erosion, greenhouse effect, greenhouse gases</p> <p>, combustion, compaction biological weathering, Argon, extrusive igneous rock, deposition, freeze-thaw:</p>	<p>Sound Waves Summer 1</p> <p>Vibration, Volume, Ear (Parts of the ear) Echo</p> <p>decibels (dB), Pitch, frequency, amplitude, Wavelength, Frequency</p> <p>hertz, Vacuum, particles, Oscilloscope, electrical signals, Absorption, transferred, Auditory range,</p>

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	<p>Ecosystems and Interdependence-Autumn 2</p> <p>Environment, species, food, habitat, water, land, grass ect. Living, non-living, Organism, Population, animal species such as snakes and lizards, climate Food Chain, Weather, Extinction</p> <p>Herbivore, Carnivore, Omnivore, Detrivore, Trophic Level, Food Web, Temperate Forest,, Woodland, Grassland, Desert, Nutrient, Community, Limiting Factor, Tolerance, Latitude, Climate, Tropical Savanna, Tropical, Rain Forest, Sediment, Plankton, Wetlands, Extinction, Biodiversity, Genetic Diversity, Species Diversity, ecosystem diversity, background extinction, , natural resource, overexploitation, renewable resource, nonrenewable resource, sustainable</p> <p>Ecology, Biosphere, Biotic factor, Abiotic Factor, Ecosystem, Biome, Predation, predator, Symbiosis Mutualism, Commensalism, Parasitism, Autotroph, producer, Heterotroph, consumer, Biomass, Matter, Biogeochemical cycle, Nitrogen fixation, Dentrification, Ecological Succesion, Secondary Succesion</p>	<p>Materials and Recycling- Spring 2</p> <p>rock, Natural resources, Recycling,</p> <p>raw, Mineral, metal compound, Ore, minerals, extraction Separation</p> <p>Electrolysis, consumption</p>	<p>Light waves- Summer 2</p> <p>Bounces, reflection, travels, line, eye</p> <p>(parts of the eye), ray, angle, Transparent: Translucent, Opaque</p> <p>Incident ray, Reflected ray, Normal line, Angle of reflection, Angle of incidence, Refraction: Absorption: Scattering, Convex lens, Concave lens, Retina</p>	
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