



Long Term Planning – Science (Chemistry / Biology / Physics)

Year	Term 1A	Term 1B	Term 2A	Term 2B	Term 3A	Term 3B
Year 7	Cells Classifying Matter	Forces in Space	Classifying Life	Properties of matter, Energy and sound	Environment and ecosystems, Chemical reactions	Chemical reactions, Electricity
	Plant, animal and specialised cells, tissues and organs, Solids, liquids and	Gravity, weight and mass, Solar system, Movement in space Tides, Energy	Living organisms, Viruses, Species, Using and constructing keys	Metals and non- metals, Mixtures Acids and alkalis Indicators and pH	Microorganisms Food chains and webs Decomposers	Reactions, Electricity current, Circuits, Conductors and insulators
Year 8	Respiration	Properties of materials, Forces and energy	Ecosystems, Materials and cycles on Earth	Light, Diet and Growth	Chemical reactions	Magnetism, Electromagnets
	Human respiratory system, Gas exchange, Breathing, Respiration Blood	Dissolving, Solutions, Forces and motion, Speed, Chromatography	Food chains and webs, Invasive species, Bioaccumulation, the atom, Purity, Weather	Nutrients, Balanced diet, Growth and dev, Skeleton, Joints and muscles	Exothermic and endothermic reactions metals with oxygen or water	Compass and circuits revision, Earth Magnetic field
Year 9	Properties of materials, Atomic structure and bonding	Forces and energy, Energy and energy transfers	Photosynthesis, Cell Processes	Animal Nutrition	Electricity	Experimental techniques and chemistry of the environment
	Atomic structure and the periodic table Group 1, 7 and 8, Ions, Covalent molecules	Density, Heat and Temperature, Evap. Conduction, Convection, Radiation	Photosynthesis, Plant minerals, structure, Transpiration	Biological Molecules, Enzymes, Human Nutrition	Electrical quantities, Electrical circuits, Electrical Safety	Chemistry, Experimental design Chromatography Purification

Additional Notes:



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Year 10	Plant Nutrition, Periodic Table, Atomic Physics, Ecosystems	Acids, Bases and salts, Forces and Motion	Disease and immunity, Metals and the reactivity series	Waves, Respiration and Human Transport	Rates of Reactions and energetics	Light, Coordination and Response, Electrochemistry
	Plant nutrition and transport, Nuclear Physics, Organisms and ecosystems	Symbol and ionic equations, Titrations, Ions & gases, motion, mass, weight, density	Disease and immunity, Drugs, Metals	Properties of Waves, Electromagnetic spectrum, Sound, Respiration	Chemical Reactions Chemical energetics	Light
Year 11	Experimental techniques, Air and water, Acids, bases and salts, Electricity	Plant nutrition, Metals, Respiration, Human transport system	Organic 1, Amount of substance, Energy	Organic 2, Reproduction in plants and animals, Inheritance and	Thermal Physics, Equilibria	
	Particles, atomic structure, ionic bonding, and the Periodic Table	Reaction rates, Coordination, response and homeostasis	Relative masses of atoms and molecules, The mole and Avogadro constant	Redox, electrochemistry and Group VII, Electromagnetism		
Extras						
Additional Notes:						