

Year 11 Science Curriculum Teaching Sequence (GCSE)		
	Term 1	Term 2
Biology <i>(Separate Sciences only – H= Higher only)</i>	<u>B5a The Nervous System</u> L1 Homeostasis L2 Nervous System L3 Synapses & Reflexes L4 Investigating Reaction Time <i>L5 Thermoregulation</i> <i>L5 The Brain</i> <i>L6 The Eye</i> <i>L7 Correcting Vision Defects</i> <u>B5b Endocrine System:</u> L1 Negative Feedback L2 Controlling Blood Glucose L3 Reproductive Hormones & Menstrual Cycle L4 & L5 Contraceptives & Increasing Fertility (H) <i>L6 Controlling Water & Nitrogen Content</i> <i>L7 Kidney Failure & Treatment</i> <i>L8 Plant Hormones & Their uses</i> <i>L9 Investigating the Effect of Light on Seedlings</i>	<u>B6a DNA & Reproduction</u> L1 DNA <i>L2 Types of Mutations (H)</i> <i>L3 Protein Synthesis (H)</i> L4 Sexual and Asexual Reproduction (practical) L5 Mitosis Vs Meiosis <u>B6b Genetics, Disease & Gene Manipulation</u> <i>L1 Sex Determination & Genetic Diagrams</i> <i>L2 The Work of Gregor Mendel</i> L3 Inherited Disorders L4 Testing & Treating Disorders L5 Selective Breeding L6 Genetic Engineering <i>L7 Cloning</i> <i>L8 Evaluating Cloning</i> <u>B6c Variation, Evolution & Classification</u> L1 Variation L2 Evolution & Extinction <i>L3 Ideas About Evolution & Speciation</i> L4 Evidence for Evolution L5 Classification
	<u>C5a Energy Changes</u> L1 Energy transfer L2 Energy changes required practical L3 Energy profiles L4 Bond energies (H) <u>C5b Cells and Batteries</u> <i>L1 Cells and batteries</i> <i>L2 Hydrogen fuel cells</i> <u>C4a Chemical Changes</u> L1 Metal oxides L2 The reactivity series L3 Displacement reactions L4 Extraction of metals and reduction L5 Reactions of acids with metals L6 & L7 Acids and insoluble bases L8 pH & Neutralisation L9 Strong vs weak acid (H)	<u>C3b Quantitative Chemistry</u> L1 Moles L2 Reacting masses L3 Limiting reagents L4 Percentage yield and atom economy <i>L5 RP Titration</i> <i>L6 Gas Calculations</i> <u>C4b Electrolysis</u> L1 The process of electrolysis L2 Molten electrolysis L3 Using electrolysis to extract metals L4 Electrolysis of aqueous solutions L5 Electrolysis Required Practical <u>C8a: Chemical Analysis</u> L1 Purity & Formulations L2 Chromatography L3 Chromatography (Practical) L4 Testing Gases (Practical) <u>C8b Chemical Analysis 2</u> <i>L1 Required Practical Testing for cations</i> <i>L2 Required Practical Testing for Anions</i> <i>L3 Identifying Unknowns</i> <i>L3 Instrumental analysis</i>

Physics (Separate Sciences only – H= Higher only)	<u>P5b Forces in Action part 1</u> L1 Contact and Non-contact forces L2 Parallelogram of forces (H) L3 Resolving Forces (H) L4 Newton’s Second Law and Inertia L5 Investigating Newton’s Second Law L6 Newton's Third Law L7 Gravity L8 Terminal Velocity <u>P5b Forces in Action part 2</u> L10 Work Done L11 Stopping Distance L12 Forces and Breaking L13 Momentum (H) <i>L14 Using Conservation of Momentum</i> L15 Centre of Mass <i>L16 Moments</i> <i>L17 Moments in Equilibrium</i> <i>L18 Gears & Levers</i> L19 Forces & Elasticity L20 Investigating Elasticity <u>P5c Pressure</u> <i>L1 Pressure and surfaces</i> <i>L2 Pressure in a liquid at rest</i> <i>L3 Atmospheric pressure</i> <i>L4 Upthrust and flotation</i>	<u>P7 Electromagnetism</u> L1 Magnetism L2 Magnetic Fields L3 Induced Magnetic Fields L4 Electromagnets & Solenoids <i>L5 Uses of electromagnets</i> L6 The Motor effect (H) L7 Calculating the Motor Effect L8 Electric Motors <i>L9 Loudspeakers</i> <i>L10 Induced Potential</i> <i>L11 Using the Generator Effect</i> <i>L12 Transformers</i> <i>L13 Transformer Calculations</i> <u>P8 Space</u> <i>L1 The Solar System</i> <i>L2 Orbits & Satellites</i> <i>L3 Birth of a Star</i> <i>L4 Stellar Evolution</i> <i>L5 Observing the Universe</i> <i>L6 The Changing Universe</i>
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