ECONOMICS A LEVEL	Morning Sessions		Afternoon Sessions	
	Session 1 9.30-11:00 am	Session 2 11:15-12:45pm	Session 3 1.15-2.45pm	Session 4 3.00-4.30pm
Day 1	Economic Problem, Demand and Supply <ul> <li>Economic problem</li> <li>Price Mechanism</li> <li>Elasticities</li> </ul>	<ul> <li>Market Failure</li> <li>Externalities</li> <li>Merits, Demerits</li> <li>Public Goods</li> <li>Imperfect Information</li> </ul>	Government Intervention, Behavioural Economics <ul> <li>Taxes, Subsidies</li> <li>Price Controls</li> <li>Biases</li> <li>Policies</li> </ul>	<ul> <li>Paper 1 practice</li> <li>Multiple Choice</li> <li>Step questions</li> <li>Extended exam question (marked overnight)</li> </ul>
Day 2	<ul> <li>Business Economics</li> <li>Objectives of Firms</li> <li>Cost Structures</li> <li>Revenues</li> <li>Profits</li> <li>Free Market</li> </ul>	Market Structures <ul> <li>Monopoly</li> <li>Price Discrimination</li> <li>Oligopolies</li> <li>Game Theory</li> </ul>	<ul> <li>Labour Market</li> <li>Demand and Supply</li> <li>Trade Unions</li> <li>Monopsony</li> </ul>	<ul> <li>Paper 1 practice</li> <li>Multiple Choice</li> <li>Step questions</li> <li>Extended exam question (marked overnight)</li> </ul>
Day 3	Macro - Foundations <ul> <li>GDP</li> <li>Index numbers</li> <li>Objectives</li> <li>AD/AS</li> </ul>	<ul> <li>Macro Objectives</li> <li>Price stability</li> <li>Economic growth</li> <li>Employment</li> <li>Balance of payments</li> </ul>	Government Policy <ul> <li>Fiscal</li> <li>Monetary</li> <li>Supply Side</li> </ul>	<ul> <li>Paper 2 practice</li> <li>Multiple Choice</li> <li>Step questions</li> <li>Extended exam question (marked overnight)</li> </ul>
Day 4	<ul> <li>Global Economy</li> <li>Trade Theory and Protectionism</li> <li>Exchange Rates</li> <li>Globalisation</li> </ul>	<ul> <li>Paper 2 practice</li> <li>Government guidance 2021</li> <li>Further Paper 2 practice</li> </ul>	<ul> <li>Paper 3</li> <li>Technique</li> <li>Case study, with exemplar</li> </ul>	<ul><li>Paper 3</li><li>Run Through</li><li>Final questions</li></ul>

Physics A LEVEL	Morning Sessions		Afternoon Sessions	
	Session 1 9.30-11:00 am	Session 2 11:15-12:45pm	Session 3 1.15-2.45pm	Session 4 3.00-4.30pm
Day 1	<ul> <li>Measurements &amp; Their Errors</li> <li>Use of SI units &amp; their prefixes</li> <li>Limitation of physical measurements</li> <li>Estimation of physical quantities</li> </ul>	Particles & Radiation• Constituents of the atom• Stable & unstable nuclei• Particle interactions• Classification of particles• Quarks & antiquarks• Conservation laws	<ul> <li><u>Electromagnetic Radiation &amp;</u></li> <li><u>Quantum Phenomena</u> <ul> <li>The photoelectric effect</li> <li>Collision of electrons with atoms</li> <li>Energy levels &amp; Photon emission</li> <li>Wave-particle duality</li> </ul> </li> </ul>	<ul> <li>Exam Technique</li> <li>Dissecting exam questions</li> <li>Understand key words</li> <li>How to answer multiple choice questions</li> </ul>
Day 2	Waves•Progressive wave•Longitudinal & transverse waves•Principle of superposition of waves and formation of stationary waves•Refraction, diffraction & interference•Refraction at a plane surface	<ul> <li>Force, Energy &amp; Momentum</li> <li>Scalars &amp; Vectors</li> <li>Moments</li> <li>Centre of mass</li> <li>Motion along a straight line</li> <li>Projectile Motion</li> <li>Newton's laws of motion</li> <li>Momentum</li> <li>Work, energy &amp; power</li> <li>Conservation of energy</li> </ul>	<ul> <li>Force, Energy &amp; Momentum <ul> <li>Bulk property of solids</li> <li>The Young Modulus</li> </ul> </li> <li>Electricity <ul> <li>Basics of electricity</li> <li>Current-voltage traits</li> <li>Resistivity - Circuits</li> <li>Potential divider</li> <li>Electromotive force &amp; internal resistance</li> </ul> </li> </ul>	<ul> <li>Exam Technique         <ul> <li>Tackling extended written questions</li> <li>Understanding experimental questions on uncertainties &amp; measurement techniques</li> <li>Extended exam question (marked overnight)</li> </ul> </li> </ul>
Day 3	<ul> <li>Periodic Motion</li> <li>Circular motion</li> <li>Simple harmonic motion</li> <li>Simple harmonic systems</li> <li>Forced vibrations &amp; resonance</li> </ul>	<ul> <li>Thermal Physics</li> <li>Thermal energy transfer</li> <li>Ideal gases</li> <li>Molecular kinetic theory model</li> </ul>	Fields & Their ConsequencesGravitational fieldsElectric fieldsCapacitanceMagnetic fieldsElectromagnetic induction & its applications	<ul> <li>Exam Technique</li> <li>How to answer questions assessing practical skills</li> <li>Exam question (marked overnight)</li> </ul>
Day 4	Nuclear Physics <ul> <li>Radioactivity</li> <li>Nuclear instability</li> <li>Mass-energy</li> <li>Induced fission</li> </ul>	Optional Units TBC	Optional Units TBC	Exam Technique • Run Through • Final questions • AOB

Biology A LEVEL	Morning Sessions		Afternoon Sessions	
	Session 1 9.30-11:00 am	Session 2 11:15-12:45pm	Session 3 1.15-2.45pm	Session 4 3.00-4.30pm
Day 1	Biological molecules	Biological Molecules Cells	Cells	Organisms exchange substances with their environment
Day 2	Organisms exchange substances with their environment Genetic information	Genetic information	Paper 1 technique & practice	Energy Transfers
Day 3	Energy transfers	Energy Transfer Responding to the environment	Responding to the environment	Genetics, populations, evolution and ecosystems
Day 4	Genetics, populations, evolution and ecosystems The control of gene expression	The control of gene expression	Paper 2 technique & practice	Paper 3 technique & practice The essay