

ECONOMICS A LEVEL

	<u>Morning Sessions</u>		<u>Afternoon Sessions</u>	
	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 style="list-style-type: none"> • Economic problem • Price Mechanism • Elasticities 	Market Failure <ul style="list-style-type: none"> • Externalities • Merits, Demerits • Public Goods • Imperfect Information 	Government Intervention, Behavioural Economics <ul style="list-style-type: none"> • Taxes, Subsidies • Price Controls • Biases • Policies 	Paper 1 practice <ul style="list-style-type: none"> • Multiple Choice • Step questions • Extended exam question (marked overnight)
Day 2	Business Economics <ul style="list-style-type: none"> • Objectives of Firms • Cost Structures • Revenues • Profits • Free Market 	Market Structures <ul style="list-style-type: none"> • Monopoly • Price Discrimination • Oligopolies • Game Theory 	Labour Market <ul style="list-style-type: none"> • Demand and Supply • Trade Unions • Monopsony 	Paper 1 practice <ul style="list-style-type: none"> • Multiple Choice • Step questions • Extended exam question (marked overnight)
Day 3	Macro - Foundations <ul style="list-style-type: none"> • GDP • Index numbers • Objectives • AD/AS 	Macro Objectives <ul style="list-style-type: none"> • Price stability • Economic growth • Employment • Balance of payments 	Government Policy <ul style="list-style-type: none"> • Fiscal • Monetary • Supply Side 	Paper 2 practice <ul style="list-style-type: none"> • Multiple Choice • Step questions • Extended exam question (marked overnight)
Day 4	Global Economy <ul style="list-style-type: none"> • Trade Theory and Protectionism • Exchange Rates • Globalisation 	Paper 2 practice <ul style="list-style-type: none"> • Government guidance 2021 • Further Paper 2 practice 	Paper 3 <ul style="list-style-type: none"> • Technique • Case study, with exemplar 	Paper 3 <ul style="list-style-type: none"> • Run Through • Final questions

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	<p><u>Measurements & Their Errors</u></p> <ul style="list-style-type: none"> • Use of SI units & their prefixes • Limitation of physical measurements • Estimation of physical quantities 	<p><u>Particles & Radiation</u></p> <ul style="list-style-type: none"> • Constituents of the atom • Stable & unstable nuclei • Particle interactions • Classification of particles • Quarks & antiquarks • Conservation laws 	<p><u>Electromagnetic Radiation & Quantum Phenomena</u></p> <ul style="list-style-type: none"> • The photoelectric effect • Collision of electrons with atoms • Energy levels & Photon emission • Wave-particle duality 	<p><u>Exam Technique</u></p> <ul style="list-style-type: none"> • Dissecting exam questions • Understand key words • How to answer multiple choice questions
Day 2	<p><u>Waves</u></p> <ul style="list-style-type: none"> • Progressive wave • Longitudinal & transverse waves • Principle of superposition of waves and formation of stationary waves • Refraction, diffraction & interference • Refraction at a plane surface 	<p><u>Force, Energy & Momentum</u></p> <ul style="list-style-type: none"> • Scalars & Vectors • Moments • Centre of mass • Motion along a straight line • Projectile Motion • Newton's laws of motion • Momentum • Work, energy & power • Conservation of energy 	<p><u>Force, Energy & Momentum</u></p> <ul style="list-style-type: none"> • Bulk property of solids • The Young Modulus <p><u>Electricity</u></p> <ul style="list-style-type: none"> • Basics of electricity • Current-voltage traits • Resistivity - Circuits • Potential divider • Electromotive force & internal resistance 	<p><u>Exam Technique</u></p> <ul style="list-style-type: none"> • Tackling extended written questions • Understanding experimental questions on uncertainties & measurement techniques • Extended exam question (marked overnight)
Day 3	<p><u>Periodic Motion</u></p> <ul style="list-style-type: none"> • Circular motion • Simple harmonic motion • Simple harmonic systems • Forced vibrations & resonance 	<p><u>Thermal Physics</u></p> <ul style="list-style-type: none"> • Thermal energy transfer • Ideal gases • Molecular kinetic theory model 	<p><u>Fields & Their Consequences</u></p> <ul style="list-style-type: none"> • Gravitational fields • Electric fields • Capacitance • Magnetic fields • Electromagnetic induction & its applications 	<p><u>Exam Technique</u></p> <ul style="list-style-type: none"> • How to answer questions assessing practical skills • Exam question (marked overnight)
Day 4	<p><u>Nuclear Physics</u></p> <ul style="list-style-type: none"> • Radioactivity • Nuclear instability • Mass-energy • Induced fission 	<p><u>Optional Units TBC</u></p>	<p><u>Optional Units TBC</u></p>	<p><u>Exam Technique</u></p> <ul style="list-style-type: none"> • Run Through • Final questions • AOB