



Year 13 and Year 12 - A Level and Vocational Qualifications

Internal Assessment 2: Monday 17th May - Friday 28th May

Subject/Qualification	Topics to revise
Maths A level	<p>Pure Mathematics: Differentiation, Equation of a normal, Arc length/ sector area, Sine and cosine rules, Parametric equations (including differentiation and integration), Solve a trigonometric equation (including identities). Modelling with Logarithms.</p> <p>Mechanics: Moments, Pulleys.</p> <p>Statistics: Binomial probability, Hypothesis testing, Normal Distribution.</p>
Further Maths A level	<p>Core Pure Mathematics: Series including Method of differences and higher derivatives. Complex numbers.</p> <p>Decision 1: Travelling salesperson algorithm</p> <p>Mechanics: Elastic collisions in 1 dimension, Work/ Energy power.</p>
Further Maths AS level (Year 12)	<p>Core Pure Mathematics: Volumes of revolution, Proof by Induction, Complex numbers - solving equations, Series</p> <p>Decision Mathematics: Sorting</p> <p>Further Mechanics: Motion on an inclined plane</p>
Maths Studies (Year 12)	Compound Interest, Box Plots and Analysis, Blue Sky Estimation, Budgeting, Data Analysis, Correlation, Normal Distribution
English Language A level	<p>Assessment Task 1 - P2A style task - revise Language Diversity and Change (not global) and relevant linguistic methods - AOs 1 and 2</p> <p>Assessment Task 2 - P1B style task - revise Child Language Development (spoken language only) and relevant linguistic methods - AOs 1 and 2</p>
English Literature A level	<p>Paper 1 Task: Prepare for a Section C essay - comparing texts (The Great Gatsby and AQA Pre-1900 poetry anthology)</p> <p>Paper 2 Task: Prepare for a Section A essay: A Streetcar Named Desire</p>
Biology A level	<p>Unit 1 (generally needs knowing, as before); Unit 2: Cell recognition and the immune system (3.2.4); Unit 3: Mass transport in plants (3.3.4.2); Unit 4: Biodiversity in a community (3.4.6) and Investigating diversity (3.4.7); Unit 5: Photosynthesis (3.5.1); Unit 6: Homeostasis (3.6.4); Unit 7: Populations in ecosystems (3.7.4); Unit 8: Gene technologies (3.8.4).</p> <p>This includes the required practicals that go with these topics: RP 7, 8, 12</p>
Chemistry A level	<p>Atomic structure (Spec 3.1.1.2 and 3.1.1.3), Amount of substance (Spec 3.1.2.3, 3.1.2.5), Bonding (Spec 3.1.3.1-3.1.3.4, 3.1.3.6), Redox (Spec 3.1.7), Thermodynamics (Spec 3.1.8.1), Acids and bases (Spec 3.1.12.4, 3.12.6), Periodicity (Spec 3.2.1.2), Group 2 (Spec 3.2.2), Halogens (Spec 3.2.3), Transition metals (Spec 3.2.5.4 and 3.2.5.5)</p>



Physics A level	Exploring Physics Paper (NOT including Particle Physics or Nuclear Physics). This includes: Charge and Current. Energy, Power and Resistance, Electrical Circuits, Waves 1, Waves 2, Quantum, Capacitors, Magnetic Fields, Radioactivity and Medical imaging.
PE A level	Paper 2 Section A: Exercise Physiology and Biomechanics Section B: Sport Psychology Section C: Year 12 Sport and Society
Dance A level	Section A: Rambert Dance Company and Rooster set work
French A level	Paper 2 - Essay La Haine
Spanish A level	Paper 2 - Essay El laberinto del Fauno
History A level	Paper 3: Protest, Agitation, and Reform Depth study - Section B: Chartism, 1838-1850. WSPU, 1903-1914. Breadth study - Section C: Reform of parliament - Changes in the franchise. Reform and redistribution.
Politics A level	Paper 3: US Government and Politics Electoral processes (including UK / US comparative elements) Presidency (including UK / US comparative elements)
Geography A level	Paper 1: Unit 1 - Tectonic Processes and Hazards (All enquiry questions - focus on earthquakes) Unit 2B - Coastal Landscapes and Change (Focus on 2.2, 2.3, 2.4, 2.5 and 2.12) Paper 2: Unit 3 - Globalisation (All enquiry questions) Unit 7 - Superpowers (Focus on 7.4, 7.5, 7.7, 7.8 and 7.9)
PRE A level	DCT: Knowledge of God's Existence, Gender and Theology Philosophy: Soul, Mind, and Body, Religious Experience Ethics: Business Ethics, Situation Ethics
Computer Science A level	Component 1 - Computer Systems 1.3 - Exchanging Data 1.4 - Data Types, Data Structures and Algorithms Component 2 - Algorithms and Programming 2.1 - Elements of computational thinking 2.2 - Problem solving and programming
Fine Art A level	No assessment
Photography A level	No assessment
Textiles A level	No assessment



Music A level	Q 1 - 4 Listening questions on Instrumental Music, Beatles and melodic Dictation Q 6 essay - one essay from Schumann, Berlioz or Beatles
Music Tech A level	Component 3 - Listening and Analysing: 60s and 80s recording and production techniques Component 4 - Producing and Analysing: MIDI, MIDI data, Principles of sound - Numeracy elements
Drama A level	Section A: Perspective of a Director (1 question) Relationships of characters with one another Re-read the whole play-text (A Servant to Two Masters) Section B: Perspective of a Director and Designer (2 questions) Characters and themes, key ideas and concepts for a range of scenes. Relationships of characters with one another Re-read Act One only (Our Country's Good)
Product Design A level	The use of CAD/CAM in design and manufacture Design Theory & Design Movements Design Influences & Microelectronics Intellectual Property Material Properties (Timbers, Polymers and Metals) Material Finishes Manufacturing methods (Timbers and Polymers) Math content: Geometry, Trigonometry, Probability and Volumes
Media A level	Long-Form Television Drama Radio Film
Economics A level	Theme 1: 1.2 How Markets Work, 1.3 Market Failure; 1.4 Government Intervention Theme 3: 3.3: Costs, Revenue and Profit Theme 2: 2.5 Economic Growth Theme 4: 4.1 International Economics and 4.3 Emerging and Developing Economies.
Business Studies A level	Theme 2: Managing Business Activities (2.2,2.3,2.4,2.5) Theme 4: Global Business (4.2,4.3,4.4)
Financial Studies LIBF (Year 12)	Unit 2: Prepare for case study questions
Psychology A level	All topics in Issues and Debates. All topics in Cognitive Development. Revise the following topics in Biopsychology: The Nervous System. The Endocrine System. Neurons and Synaptic Transmission. Localisation of function in the brain. Hemispheric lateralisation and split-brain research. Plasticity and functional recovery of the brain.
Sociology A level	Education: Topic 1 and topic 2 (gender and ethnicity only) Theory and Methods: Topics 3, 4 and 6