Year 13 Mock Examinations Monday 20th October 2025 – Wednesday 12th November 2025

Subject	Summary of Exam (Type/length)	Topic content
Art	All day	Personal response (large scale) to self-selected theme
Biology	45 marks (10 MCQs, 35 structured answers) 60 minutes	Module 2 Foundations in biology Module 4 Biodiversity, evolution and disease
Business	75 marks 90 minutes (multiple choice, calculations, 9-mark questions, 25-mark essay)	 Questions cover a range of topics from across the course so far, relevant knowledge from any unit could support written responses. Recommendation is to focus on the following topics during revision: What is business/ leadership: Types of ownership, decision trees, stakeholders, market capitalisation Finance: Profit, break-even Operations: Capacity utilisation, unit costs, quality, inventory management HR: Financial and non-financial rewards, theories of motivation, productivity, labour turnover Marketing: Price elasticity, niche and mass markets, Boston matrix Strategy: SWOT, inflation, financial ratios
Business (OCR)	No mock due to continuous assessment	
Chemistry	80 marks (combination of MCQs and structured answers) 90 minutes	 Topic 2: Bonding and Structure Topic 5: Formulae, Equations and Amounts of Substance Topic 6: Organic Chemistry I Topic 7: Modern Analytical Techniques I Topic 8: Energetics I Topic 9: Kinetics I Topic 10: Equilibrium I
Computer Science	90 marks 90 minutes	 Floating Binary Database Object Oriented Programming Memory management and CUP Scheduling Little man computer Data structure Search and Sorting Algorithm Big O notation Writing algorithms Computational thinking Graphs and trees Recursion Shortest Paths Boolean algebra and K-Maps Ethical and legal issues
Criminology	Unit 4 45 minutes Students have copy of specification	AC 1.1 describe processes used for law making AC 1.2 describe organisation of CJS in England and Wales AC 1.3 - describe models of criminal justice LO2: AC 2.1 - explain forms of social control AC 2.2 - discuss the aims of punishment

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Economics	Theme 1 and Theme 2 content ONLY 90 minutes 75 marks 40 marks from Theme 1 35 marks from Theme 2	Theme 1 topic content: Nature of Economics – introductory work, e.g. PPFs and Subjective/Objective economic ideas Supply & Demand Revenue Elasticity – PED PES CPED Market Failure – a focus on: Externalities (including appropriate diagram use) Imperfect information Theme 2 topic content: Multiplier Economic growth Measures of economic performance/standard of living. Monetary Policy Fiscal Policy
English Literature	1 hour 15 minutes Paper 2 Prose	Dracula/ Little Stranger Choice of two comparative essays (you answer one of them) Copies of blank texts (not your own)
French	90 minutes Writing on Y12 topics 1 hour Listening and reading 30 minutes	Writing Unit 1 la famille Unit 3 le monde du travail Unit 4 la musique Unit 5 les médias Listening, Reading Unit 1 la famille Unit 5 les médias
Further Maths	90 minutes Y13 content	 Unit 6 les festivals Vectors: vector lines, cross product, distances. Complex numbers: De Moivre's Theorem, complex powers and roots, exponential and trigonometric forms, series. Matrices: 3 x 3 matrices, finding an inverse. *Mechanics: centre of mass, forces and friction *Modelling with Algoriths: Packing & sorting, Graph theory, minimum spanning trees, shortest paths.
Geography	A combination of Paper 1 and Paper 2 90 minutes	Paper 1 – Hazards The concept of hazards in a geographical context Plate tectonics Volcanic hazards Seismic hazards Storm hazards Fires in nature Case study of a multi-hazardous environment Case study of a local scale hazard Paper 2 – Changing Places: The concept of place Categories of place (near places/far places, experienced/media places). Relationships, connections, meaning and representation Factors contributing to the character of places (endogenous/exogenous) Meaning and representation Place studies (Digbeth and Torquay)

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History	Paper 1 and Paper 2	1 essay for the USA and 1 essay for the Britain topic.
	90 minutes	1K – US Politics 1890 –1914, The Progressive Era, Big Business and the Government
		2S - The Thatcher Government, Lessons 1-7
Law	Paper 2	Law Making
	Law Making and Tort Law	Legislative Process
	00	Delegated Legislation
	90 minutes	Statutory Interpretation
		Judicial Precedent
		Law Reform
		Tort Law – NO ESSAY QUESTION
		Negligence
		Occupiers Liability
		Private Nuisance
		Rylands v Fletcher
		Vicarious Liability
Mathematics	90 minutes Year 13 content	 Differentiation: Chain rule, product rule, quotient rule, rate of change, implicit differentiation, differentiating trig, exponentials and logarithms. Trigonometry: Working with radians, arc length & sector area.
		Probability: conditional probability. Transfer of the state
Media Studies	90 minutes	 Functions: domain & range, composites, inverses, modulus. The unseen question will be on an audio-visual text: either an
iviedia Studies	90 minutes	advertisement or a music video
	Component 1 Section A	advertisement of a music video
	Unseen Media Language (15)	The representation comparison will be print-based. Students need to
	& Representation comparison	revise the print set products: Tide, Kiss of the Vampire, and the
	(30)	newspaper pages.
OCR Sport	90 minutes	LO1 – Skeletal System
		LO2 – Muscular System
	Unit 1	LO3 – Cardiovascular System
	Body Systems	LO4 – Respiratory System
	(in preparation for January	
	exam)	Use ClassCharts for PowerPoint resources. All PowerPoints are
		separated into LO1, 2, 3 and 4. Exam packs / practice questions are
		available to pick up in the sixth form office.

Subject	Summary of Exam (Type/length)	Topic content
PE	OCR A Level PE Physiological factors affecting performance	Overview: Paper 1 is a 90-minute written exam worth 70 marks. It tests students' understanding of how the body works and adapts during physical activity and training, as well as the scientific principles behind performance.
	90 minute written exam worth 70 marks	Content Areas: Applied Anatomy and Physiology – body systems, energy for exercise, and recovery.
		Exercise Physiology – training methods, preparation, diet, and performance aids.
		Biomechanics – motion, forces, levers, projectiles, and use of technology in sport.
		Question Style: The paper includes a mix of short-answer, data-response, and extended questions, requiring application of theory to sporting examples and interpretation of scientific information.
		Assessment Focus: Students are expected to: Apply physiological and biomechanics knowledge to performance scenarios. Analyse data and sporting situations.
		Communicate with correct use of scientific and technical terminology.
Physics	1 hour 30 minutes 70 marks of short and long answer questions from all areas of Y12 content	Topics Assessed: Particles and radiation Waves Mechanics Materials Electricity SHM
Psychology	1 hour 30 mimnutes	Paper 1 – social, cognitive, biopsychology and learning theories
	Calculators needed Paper 1 – Year 12 content	Students already provided with detailed end of topic checklists last year
Religious Studies Philosophy & Ethics	1 hour 30 minutes 1 AO2 Philosophy	Philosophy AO2 question taken from Theme 2 Challenges to Religious Belief either D-Freud, E- Jung or F —Atheism
	1 AO2 Ethics 1 AO1 Christianity	Ethics AO2 question from Themes 2 and 3 Utilitarianism, Situation Ethics, Natural Law
		Christianity AO1 question taken from Theme 2 Religion and Belief either D- Faith and Works or E- Community of Believers
		Or AO1 question from theme 1, Birth narratives or resurrection

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Sociology	1 hour 30 minutes	Paper 1
		Education with Methods in Context
	Combination of paper 1 and 2	
	content from Year 12	Paper 2
		Families and Households
		Students have detailed checklist from last year
		Combination of short answer questions – 4 and 6 marks
		Essay based questions - 10 and 20 mark essays