Mock Examinations 2021

Notification of Assessed Content

Subject	List of Key Topics/Content
English Language	Paper 1 – 1 ³ / ₄ hours
	Section A: Fiction Reading
	One 20 th Century text and 5 questions, based on:
	AO1: Information retrieval, reading for meaning.
	AO2: Language analysis.
	AO4: Critical evaluation.
	This information has already been shared with students, but we have not pre-released
	what text is being used for this section.
	Section B: Fiction (Story) Writing
	One task, a choice of 4 titles, based on:
	AO5 – Style and structure.
	AO6 – Technical skills of grammar and punctuation.
	This information has already been shared with students, but we have not pre-released what titles are being used for this section.
	<u>Paper 2 – 2 hours</u>
	Section A: Non-Fiction Reading
	Two texts – one 19 th Century text and one 21 st Century text - and 6 questions, based
	on:
	AO1: Information retrieval, reading for meaning.
	AO2: Language analysis.
	AO3: Comparison.
	AO4: Critical evaluation.
	This information has already been shared with students, but we have not pre-released
	what texts are being used for this section.
	Section B: Non-Fiction (Transactional) Writing
	Two tasks, no choices, based on:
	AO5 – Style and structure.
	AO6 – Technical skills of grammar and punctuation.
	This information has already been shared with students, but we have not pre-released
	what questions are being used for this section.
English Literature	We are not doing a full formal mock yet, though we are assessing in MAPs as per the
	specification / ARR.
	Knowledge and Skills
	AO1: Knowledge of plot, characters and themes.
	AO2: Language analysis.
	AO3: Social context.
	AO4: Technical skills of grammar and punctuation.
	Paper 1
	Macbeth – one hour
	Part a) Extract - character or theme question. Individually set by class teachers.

	Done in May 2021. Year 10.		
	•		
	Part b) Thematic – character or theme question.		
	Done in Nov 2021. Year 11.		
	This information has already been shared with students, but we have not pre-released		
	the question.		
	Paper 1		
	An Inspector Calls – one hour		
	Springboard - character or theme questio	ın.	
	Done in Nov 2021. Year 11.		
	This information has already been shared	with students, but we have not pre-released	
	the question.		
	Papar 2		
	<u>Paper 2</u> A Christmas Carol – one hour		
		_	
	Springboard - character or theme question	in.	
	Done Oct 2021. Year 11.		
		with students, but we have not pre-released	
	the question.		
	Paper 2		
	Unseen Poetry – one hour		
	Part a) Single poem question. Watching a	Dancer.	
	Done in June 2021. Year 10.		
	Part b). Comparison of second poem. Bus	ker.	
	Done in June 2021. Year 10.		
Maths (Higher)	Paper 1	Paper 2	
	Probability	 Inequalities 	
	Proportion	Straight line graphs	
	Factors and Multiples	Fractions	
	Plans and elevations	Data Collection	
	Transformations	Volume	
	Ratio	Trigonometry	
	Perimeter and Area	Error Intervals	
	Estimation	Ratio	
	Index Laws	Standard Form	
	Fractions Circumference		
 Simultaneous Equations Median and Quartiles Percentages Area Probability Cumulative Frequency 		• Area	
		Probability	
		-	
	Algebraic Proof	Sector	
	Trigonometry	Algebric Fractions	
	Volume	Rates of Change	
	Product Rule	Area under a curve	
	Quadratic Equations	• Change the subject of the formula	
	Surds	Multiples	
	Quadratic Graphs	Two way tables	
	Functions	Circle theorems	
		Vectors	
1			

Maths	Paper 1	Paper 2	
(Foundation)	• Time	Fractions, decimals, percentages	
X ,	• Fractions, Decimals and Percentages	Negative numbers	
	Order of Operations	Factors	
	Prime numbers	Mass	
	Calculations	Money	
	Money	Algebraic expressions	
	Line Graphs	Pictograms	
	 Speed, Distance, Time 	Substitution	
	 Collect like terms 	Timetables	
	 Solving equations 	Calculations	
	 Angles in parallel lines 	Ratio	
	 Converting length 	Area	
	 Square and cube numbers 	Probability	
	 Expanding brackets 	Proportion	
		Loci	
	,	Scale drawingsInequalities	
		Straight line graphs Data Collection	
	Two-way tables	Data Collection	
	Proportion	Volume Tripped and an	
	Factors and Multiples	Trigonometry	
	Plans and elevations	Error Intervals	
	Transformations	• Ratio	
	Perimeter and Area	Standard Form	
		Sequences	
		Vectors	
Science Trilogy	Paper 1 content only (3x1hr,15min) FOUNDATION BIOLOGY:		
	Cell Structure		
	 Transport in cells (Diffusion, Osmosis & Active Transport) 		
	 Enzymes & Digestion 		
	Communicable Disease		
	Human Defence Systems		
	Antibiotics and Painkillers		
	Discovery and development of drugs		
	Plant Organ Systems		
	Transpiration		
	 Aerobic and Anaerobic Respiration 		
	FOUNDATION CHEMISTRY:		
	 Atoms, elements and compounds The development of the model of the atom 		
	 The development of the model of the atom Development of the periodic table 		
	Development of the periodic table Matals and non-metals		
	 Metals and non-metals Neutralization of acids and calt production (R.R.) 		
	 Neutralisation of acids and salt production (R.P.) Energy transfer during systematic and endethermic reactions (R.P.) 		
	Energy transfer during exothermic and endothermic reactions (R.P.)		
	Chemical bonds, ionic, covalent and metallic		
	Using electrolysis to extract metal	s (aluminium)	
		s (aluminium)	

	Dealing attribute and helf life	
	Radioactivity and half life	
	Energy Resources and Power	
	 Behaviour of gases and gas pressure 	
	Specific latent heat	
	 Wiring a plug and safety when using domestic electricity 	
	Radioactive isotopes and the three types of radiation	
	HIGHER BIOLOGY:	
	Cell Structure	
	Microscopy - Calculating Magnification	
	 Transport in cells (Diffusion, Osmosis & Active Transport) 	
	 Osmosis (RP) 	
	Health Issues	
	Effect of lifestyle on non-communicable disease	
	 Aerobic and Anaerobic Respiration 	
	Communicable Disease	
	 Discovery and development of drugs 	
	 Vaccinations 	
	Photosynthesis	
	Investigating the effect of limiting factors on rate of photosynthesis. (RP)	
	HIGHER CHEMISTRY:	
	Atoms, elements and compounds	
	The development of the model of the atom	
	The periodic table	
	Group 1 metals and their reactivity	
	Chemical bonds, ionic, covalent and metallic	
	Chemical measurements, conservation of mass and the quantitative	
	interpretation of chemical equations, limiting reactants	
	Mass changes when a reactant or product is a gas	
	Neutralisation of acids and salt production (R.P.)	
	The pH scale and neutralisation	
	Using electrolysis to extract metals (aluminium)	
	Concentration of solutions	
	• Energy transfer during exothermic and endothermic reactions (R.P.)	
	HIGHER PHYSICS:	
	 Wiring a plug and safety when using domestic electricity 	
	 Radioactive isotopes and the three types of radiation 	
	Electricity-Resistance in a wire Required Practical (RP)	
	Energy Resources and Power	
	 Particle theory-behaviour of substances as they cool 	
	 Specific latent heat and specific heat capacity (RP) 	
	Radioactive decay and radioactive resources	
	Elastic Potential and Energy Stores	
Biology (Separate	Paper 1 content only (1x1hr,45min)	
Science)	HIGHER BIOLOGY:	
	Cell Structure – Prokaryotic and Eukaryotic Cells	
	Cell Division – Mitosis	
	Transport in cells (Diffusion, Osmosis & Active Transport)	
	• Exchange surfaces	
	• Enzymes	
	Food Tests (RP)	
	Health Issues	

	Monoclonal Antibodies
	Drug Development
	Plant disease (Detection and Identification)
	Plant defences responses
	Photosynthesis
	Investigating the effect of limiting factors on rate of photosynthesis. (RP)
Chemistry	Paper 1 content only (1x1hr,45min)
(Separate Science)	The development of the model of the atom
	Development of the periodic table
	Group 7
	Chemical bonds, ionic, covalent and metallic
	How bonding and structure are related to the properties of substances
	Metals & The reactivity series
	Oxidation and reduction in terms of electrons
	Chemical measurements, conservation of mass and the quantitative
	interpretation of chemical equations, limiting reactants & reacting masses
	Conservation of mass and balanced chemical equations
	Atom economy
	Use of amount of substance in relation to volumes of gases
	Titrations (R.P.)
	The process of electrolysis
	Electrolysis of aqueous solutions (R.P.)
	• Exothermic and endothermic reactions (R.P.)
	Reaction profiles
	Chemical cells and fuel cells
Physics (Separate	Paper 1 content only (1x1hr,45min)
Science)	HIGHER PHYSICS:
,	Wiring a plug and safety when using domestic electricity
	Radioactive isotopes and the three types of radiation
	 Electricity-Resistance in a wire Required Practical (RP)
	Energy resources and power
	Particle theory-behaviour of substances as they cool
	Specific latent heat and specific heat capacity (RP)
	Radioactive decay and radioactive resources
	 Elastic potential energy and energy stores
	Fission and fusion
	Gravitational potential energy
	Behaviour of gases and pressure

History	Exam 1 - Conflict and Tension 1918-1939		
history			
	 Peace-making after WW1 (Treaty of Versailles) Peacekapping after WW11 (League of Nations) 		
	 Peacekeeping after WW1 (League of Nations) The origins and outbreak of WW2 		
	• The origins and outbreak of WW2		
	USA opportunities and inequalities 1920-73		
	American People and the Boom		
	Americans' experiences of the Depression and the New Deal		
	Post- War America (Civil Rights Movement)		
	Exam 2 - Health of the British people c1000-today		
	Changes to ideas about CAUSES of disease since c.1000		
	Changes TREATMENTS of disease since c.1000		
	Changes to SURGERY and ideas about ANATOMY since.1000		
	Changes to ideas about PUBLIC HEALTH since c.1000		
	• FACTORS that have had an impact on the development of the Health of the		
	British people.		
Geography	Exam 1 – Living with the Physical Landscape (Tectonic hazards, weather hazards,		
	climate change, ecosystems, tropical rainforests, hot deserts, coasts, and rivers)		
	Exam 2 – Challenges in the Human Environment (Urban growth, Rio de Janeiro,		
	Liverpool, resource management and water resources)		
	Exam 3 – Geographical Applications and Skills (Fieldwork and Issue Evaluation)		
French	Paper 1 – Listening (H - 45mins/F - 35 m)		
	Questions will cover core knowledge from any topic in the three themes (found		
	below):		
	Theme 1 - me, my family and friends; free time and hobbies; technology; festivals		
	and culture.		
	Theme 2 - house and town; the environment; social issues; healthy lifestyles;		
	holidays.		
	Theme 3 - school; life at school; education post 16; jobs and careers; future plans.		
	Paper 3 – Reading (H - 1hr/F - 45mins)		
	Questions will cover core knowledge from any topic in the three themes (found		
	below):		
	Theme 1 - me, my family and friends; free time and hobbies; technology; festivals		
	and culture.		
	Theme 2 - house and town; the environment; social issues; healthy lifestyles;		
	holidays.		
	Theme 3 - school; life at school; education post 16; jobs and careers; future plans.		
	Paper 4 – Writing (H – 1hr 20/F - 1hr 5)		
	The questions will allow students to demonstrate their core knowledge from all three		
	themes when writing at length (found below). The topic will be chosen by the		
	examination board (AQA).		
	Theme 1 - me, my family and friends; free time and hobbies; technology; festivals		
	and culture.		
	Theme 2 - house and town; the environment; social issues; healthy lifestyles;		
	holidays.		
	Theme 3 - school; life at school; education post 16; jobs and careers; future plans.		
Art	No mock exam. Exam removed for 2022 candidates.		
Drama	Component 1 – Understanding Drama Exam paper - 1 hour 45 minutes		
-	 Section A – Theatre roles and responsibilities, staging 		
	 Section B – Study of a set play. (Blood Brothers) 		
	 Use of lighting & arrangement of a stage for a line/scene 		
	 Analysis of an extract/characterisation Responses as an actor or technician 		

	 Vocal and physical skills Section C – Live Theatre Review & why it was memorable. Focus on portrayal of emotions, characterisation, staging, space, set, lighting etc from the view point of an audience member
Music	 Appraising exam – 1 hour 15 minutes AoS1 Musical Forms & Devices Bach Badinerie analysis including bars & beats, keys, techniques AoS2 Music for Ensemble AoS3 Film Music AoS4 Popular Music Toto Africa analysis Key signatures, Musical characteristics Structure, Texture, Tonality, Extended writing Intervals, Instrumentation & Techniques, Dictation Harmonic & Rhythmic devices Types of live ensembles Chords, Time Signatures
Computer Science	 Paper 1 – COMP01 – 1 hour 30 minutes: Systems Architecture – CPU Characteristics, Components & von Neumann architecture, Embedded Systems ; Memory & Storage – storage characteristics and choices, images, characters, units, hexadecimal, binary shifting, compression; Computer Networks, Connections and Protocols – network types, network hardware, describing a network, cloud storage; Network Security - threats and prevention; Systems Software – defragmentation, operating system functions; Ethical, legal, cultural and environmental impacts of digital technology - scenario application, laws, licensing Paper 2 – COMP02 – 1 hour 30 minutes: Algorithms – Structure Diagrams, Identifying common errors, Refining and creating an algorithm, writing an algorithm, abstraction and its application, searching algorithms; Programming Fundamentals - variables, inputs, outputs assignments, sequence, selection, iteration, arithmetic and Boolean operators, arrays, SQL; Producing Robust Programs - defensive program design, testing; Boolean Logic - logic diagrams; Programming languages and Integrated Development Environments – high & low level languages, IDEs
IT	R012- 1 hour 45 minutes paper LO1: Project life cycle Phases of the project life cycle- focus on the evaluation phase Planning tools: flow charts, tasks list (definition, advantages and disadvantages) Constraints of a project User requirements Success criteria Advantages and disadvantages of using the project management software

	LO3: Collecting data	
	Data types	
	 Advantages and disadvantages of using interviews to collect data. 	
	The cloud	
	LO4: Computer threats	
	Examples of malware attacks: ransomware and rootkit	
	DPA	
	Mitigation methods: encryption, anti-virus software, authentication.	
	LO6: Presenting information	
	Demographics of a target audience.	
	• Databases also known as an automated system- understand the following:	
	o Data validation	
	o Queries -what they are used for?	
	o Reports- what they are used for?	
	o Input forms with macro buttons- what they are used for?	
	o Switchboard- what they are used for?	
Business	Theme 1:	
	Business rewards	
	Market share	
	Added value	
	 Digital payments / communication 	
	Business planning	
	Short term sources of finance	
	Types of ownership	
	Marketing mix	
	 Reasons why new ideas come about 	
	 Market - Mapping / Segmentation / Research 	
	 Competition 	
	Stakeholders	
	Importance of cash	
	Use of social media	
	 Breakeven Exchange rates – value of the pound E-commerce 	
	Formulas -	
	Net cash flow	
	Total cost – fixed and variable	
	Percentage change	
	Selling price	
	Profit	
	Theme 2:	
	Business growth (inorganic/organic)	
	 Types of business ownership – Public limited company 	
	Sources of finance	

	Changes in aims and objectives
	Business and globalisation
	Ethics and the environment
	Marketing mix
	 Job batch and flow production
	Formulas -
	Gross profit
	Percentage change
Design Technology	Section A
	Properties of Materials: Sheer, torsion, tensile strength, malleable etc
	Smart Materials
	Modern Materials Revision
	Composite Materials Clastropics Pasies Input Process Output Palarity Pasitive (Negative)
	 Electronics Basics: Input, Process, Output, Polarity, Positive/Negative. Mechanical Systems: Levers, linkages etc.
	 Mechanical Systems: Levers, linkages etc. Health & Safety in the workplace: Policies, injury reduction etc
	Section B
	 Additive techniques (manufacturing): Soldering, 3D printing, printing, Off-set
	Lithography
	 Manufacturing techniques: Efficiency, Environmental
	Scales of production
	Life cycle assessment Characteristics and properties of materials:
	Materials - Paper & board. Wood metal & polymers
	Section C
	Scale models and testing techniques
	 Drawing methods: freehand, exploded
	 Design strategies: Systems approach, iterative, user centred
	 Designers/Design Companies (Choose one company from the list)
	Orthographic projection
	Standard components
Food Prep &	Section A – Multiple choice
Nutrition	Selection of topics from across the specification
	Section B
	Reasons why food is cooked
	Factors that influence food choice
	Effects of cooking on food
	Suitability of meals for specific requirements
	Functions of water in the body
	Micronutrients
	Denaturation
	Coagulation
	Sensory tasting in controlled conditions
	Enzymic browning
	Nutritional information
	Food waste

Creative iMedia	 R081 Content, purpose and uses of the 5 Visualisation diagrams, scripts, mod File formats Health and Safety Site Reccies Work plans Primary and Secondary sources Target audience 	5 pre-production documents: od boards, story boards and mind maps.
PE	Paper 1-Muscular system (structure and function, short/long term effects of exercise)Injury prevention (hazards, risks, warm up/cool downs)Skeletal system 	 Paper 2 Ethics and behaviour in sport Feedback Benefits of exercise. Mental preparation techniques Factors effecting participation Balanced diet and nutrients Sponsorship, media and commercialisation in sport Skill classification and skilful movement SMART/goal setting Data collection methods Synoptic Physical benefits of exercise