

Year 11 Mock Examinations
Monday 2nd December and Wednesday 18th December

Subject	Summary of Exam (Type/length)	Topic content
Art and Design		<p>Students will sit a controlled assessment producing a personal response to their coursework on the theme of <i>Portraits and figures</i>.</p> <p>This will allow them the opportunity to demonstrate their skills, creativity, and personal understanding gained throughout the coursework unit which makes up 60% of their final GCSE grade.</p> <p>The final piece must be a response to the preparatory work they have already completed. Students should be drawing from their own ideas, thoughts, and artistic exploration. They have already researched artists, experimented with techniques, and created sketches and studies. The controlled assessment allows them to refine these ideas into a final, more polished piece that showcases their individual interpretation and creativity.</p> <p>Students are given the freedom to choose any materials they feel most comfortable with or that will best express their ideas. Students are able to plan and prepare beforehand, and will have had time to research, experiment, and develop their ideas before the actual assessment.</p> <p>The assessment and coursework unit combined will measure how students have achieved the following assessment objectives:</p> <ul style="list-style-type: none"> • AO1: Develop ideas through investigations, demonstrating critical understanding of sources. • AO2: Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes. • AO3: Record ideas, observations and insights relevant to intentions as work progresses. • AO4: Present a personal and meaningful response that realizes intentions and demonstrates understanding of visual language.
Biology Separate sciences	<p style="text-align: center;">Paper 1</p> <p style="text-align: center;">100 marks</p> <p style="text-align: center;">1 hour 45 minutes</p>	<p>Paper 1 and will cover the following.</p> <ul style="list-style-type: none"> • Topic 1: Key Concepts in Biology • Topic 2: Cells and Control • Topic 3: Genetics • Topic 4: Natural selection and gene modification • Topic 5: Health, disease and the development of medicines <p>Students will be given revision packs through the class teachers. Please continue to use Educake (online platform) and Physics and Maths Tutor as well for exam revision. https://www.physicsandmathstutor.com/</p>
Business Enterprise	<p style="text-align: center;">Paper 1</p> <p style="text-align: center;">Business and Enterprise</p> <p style="text-align: center;">80 marks</p> <p style="text-align: center;">1 hour 30 minutes</p>	<p>The paper will cover:</p> <ul style="list-style-type: none"> • CA1: Stakeholders, Types of business (Ltd, PLC, etc.) • CA2: Market research, Supply and demand curves, Marketing mix (4p's) (including the full details of each element e.g. product life cycle) • CA3: Recruitment, Training and Motivation • CA4: Lean, Methods of production (job, batch, flow), Customer Service and Quality • CA6: Financial objectives (including sources of finance), Costs revenue and profits (including calculations), Income statements • CA7: Economic factors

Subject	Summary of Exam (Type/length)	Topic content
Business	<p>Paper 1 Building a Business</p> <p>90 marks</p> <p>1 hour 45 minutes</p>	<p>This paper covers content from year 10. Section A is purely knowledge based. Sections B and C include case studies, so all answers must be written in context.</p> <p>Content to revise includes:</p> <p>1.1 Entrepreneurship and enterprise: Types of business ownership, the competitive environment, added value, risk and reward</p> <p>1.2 Spotting and opportunity: Market research, market segmentation, e-commerce, customer needs, promotion and social media, factors affecting location</p> <p>1.3 Putting an idea into practice: Cost, revenue and profit calculations, sources of finance, break even and margin of safety, cash flow,</p> <p>1.4 Making a business effective: business plans</p> <p>1.5 Understanding external influences: Legislation, economic influences including unemployment and income levels.</p>
Chemistry Separate sciences	<p>Paper 1</p> <p>100 marks</p> <p>1 hour 45 minutes</p>	<p>Paper 1 and will cover the following.</p> <ul style="list-style-type: none"> • Topic 1: Key concepts in chemistry • Topic 2: States of matter and mixtures • Topic 3: Chemical changes • Topic 4: Extracting metals and equilibria • Topic 5: Separate chemistry 1 <p>Students will be given revision packs through the class teachers. Please continue to use Educake (online platform) and Physics and Maths Tutor as well for exam revision. https://www.physicsandmathstutor.com/</p>
Computer Science	<p>Paper 1 Computer System</p> <p>80 marks</p> <p>90 minutes</p> <p>Paper 2 Computational thinking</p> <p>80 marks</p> <p>90 minutes</p>	<p>Paper 1 covers the following topics: Data Representation (including binary, hexadecimal, left and right shifts, and addition), sound and images, Units of Data, System Architecture (CPU), Memory (RAM and ROM), System Storage, Networks and Network Protocols, the Functions of the Operating System, and Legal, Moral, Ethical, and Cultural Issues.</p> <p>Paper 2 covers the following topics: Programming Techniques, Writing Algorithms (pseudocode and flowcharts), Tracing Algorithms, Robust Programs, Search and Sorting Algorithms, Boolean Logic, Translators and IDEs, Functions and Procedures, Computational Thinking, and Databases.</p> <p>Revision resources:</p> <p>1. OCR Website – [OCR GCSE Computer Science] (https://www.ocr.org.uk/qualifications/gcse/computer-science-j277-from-2020/assessment/)</p> <p>OCR provides official past papers and mark schemes that will give students an insight into the structure of the exam and the types of questions that are likely to come up.</p> <p>2. BBC Bitesize – [GCSE Computer Science OCR] (https://www.bbc.co.uk/bitesize/examspecs/zmtchbk)</p> <p>A great resource that breaks down the course topics into bite-sized revision sections. It also includes quizzes and videos to help reinforce learning.</p> <p>3. Seneca Learning – [Seneca OCR J277] (https://senecalearning.com/en-GB/)</p>

Subject	Summary of Exam (Type/length)	Topic content
		<p>This platform offers free interactive revision content for the OCR J277 course. It's a useful way to review key topics in an engaging and efficient way.</p> <p>4. Isaac Computer Science – [Isaac Computer Science GCSE] https://isaaccomputerscience.org/pages/gcse_topics Designed for GCSE and A-level students, this website provides a range of resources, including topic explanations and interactive questions.</p> <p>5. GCSEPod – [GCSEPod] (https://www.gcsepod.com/) This platform provides short videos and quizzes on every topic of the OCR GCSE Computer Science course. It's ideal for reviewing on the go.</p> <p>6. Teach-ICT – [Teach-ICT OCR J277] (https://www.teach-ict.com/) This website offers revision notes, quizzes, and resources that align specifically with the OCR J277 course. It's a good way to focus on specific areas students may find challenging.</p> <p>7. YouTube– Search for “OCR J277 Computer Science revision” There are numerous channels dedicated to helping students revise OCR J277 topics through visual aids and explanations. Popular channels include Craig 'n' Dave and The Tech Train.</p>

<p>Design Technology</p>	<p>1 paper 90 minutes</p>	<p>Topics: Core technical principles</p> <p>How energy is generated: coal, oil, gas, nuclear power, wind, solar, tidal, hydro-electrical, biomass Arguments for and against</p> <p>How energy is stored: kinetic pumped storage systems, flywheels, batteries</p> <p>Materials- properties and applications of the following:</p> <ul style="list-style-type: none"> • Modern materials: Graphene, metal foam, titanium, coated metals, LCD's nanomaterials • Smart materials: Shape memory alloys, thermochromic pigments, photochromic pigments • Composites: Carbon fibre reinforced plastic (CRP), glass reinforced polymer (GRP) and concrete • Technical textiles: Conductive fabrics, fire resistant fabrics, kevlar, microfibres, microencapsulation • Paper: bleed proof, cartridge, grid, tracing, layout • Board: corrugated, duplex, foam, foil lined, solid white, inkjet card • Hardwoods: ash, beech, mahogany, oak, balsa • Softwoods: larch, pine, spruce • Man made boards: MDF, plywood, chipboard • Ferrous metals: low carbon/mild steel, iron, high carbon steel/tool steel • Non ferrous metals: aluminium, copper, tin, zinc • Alloys: brass, stainless steel, high speed steel • Thermoforming polymers: acrylic (PMMA), high impact polystyrene (HIPS), high density polythene (HDPE), polypropylene (PP), polyvinyl chloride (PVC), polyethylene terephthalate (PET) • Thermosetting polymers: epoxy resin (ER), melamine-formaldehyde (MF), phenol formaldehyde (PF), polyester resin (PR), urea-formaldehyde (UF). • Natural textiles: cotton, wool, silk • Synthetic textiles: polyester, polyamide (nylon), elastane (lycra) • Blended and mixed fibres (Cotton/polyester), woven (plain weave) non-woven (bonded, felted, knitted) <p>Types of movement: rotary, oscillating, reciprocating, linear</p> <p>Mechanical devices: levers (first, second, third class) linkages (push pull, parallel, bell crank), CAMS, gears, pulleys and belts</p> <p>Specialist technical principles</p> <ul style="list-style-type: none"> • Forces: Tension, compression, bending, torsion and shear. • How materials can be reinforced, stiffened or made more flexible: eg lamination • Ecological issues: carbon footprint, The 6 R's, Life cycle analysis. cradle to grave assessment • Sources of timber and how it is converted into a workable form: felling, debarking, conversion, seasoning, production of man made boards • Processes (be able to describe in detail using notes and diagrams and identify application): routering, laminating, laser cutting, painting, turning • Stock forms: Planks, boards, mouldings, dowel, square section
---------------------------------	-------------------------------	--

Subject	Summary of Exam (Type/length)	Topic content
		<p>Designing and making principles</p> <ul style="list-style-type: none"> • Types of research (explain how they are carried out) • Primary research: Focus groups, questionnaires, surveys, product analysis, material/processes testing • secondary research: internet searches, moodboards, books, catalogues • Design strategies (explain is carried out and the advantages) • Collaboration, user centered design, iterative design, avoiding design fixation • Writing a specification for different users • How physical modelling and computer based modelling is used to develop a design • Communicating designs (understand the advantages of each type) freehand sketching, isometric and perspective, annotated drawings, exploded diagrams to show constructional detail or assembly, working drawings: 3rd angle orthographic, computer based tools • Be able to produce a third angle orthographic drawing
<p>English Language</p>	<p>English Language Paper 1 Question 5</p> <p>45 minutes</p> <p>English Language Paper 2 Question 1-5</p> <p>1 hour 45 minutes</p>	<p>Paper 1: Q5 – Descriptive/ Narrative/ Creative writing inspired by a picture</p> <p>Paper 2: Q1 – Choose 4 true statements (4marks) Q2 – Compare two things Q3 – How does the writer use language? Q4 – Compare writers’ feelings and methods for conveying those feelings Q5 – Persuasive/ informative/ opinion writing based on a statement</p>
<p>French</p>	<p>Paper 1 Listening Foundation 35 minutes Higher 45 minutes</p> <p>Paper 2 Speaking Conducted on Monday 2nd and Tuesday 3rd December</p> <p>Paper 3 Reading Foundation 50 minutes Higher 60 minutes</p> <p>Paper 4 Writing Foundation 1 hour Higher 1 hour 15 minutes</p>	<p>Students will be sitting either a Higher or a Foundation mock GCSE. This decision will be based on their target grades and general progress at this stage.</p> <p>Paper 1 and paper 3 No content information can be communicated due to the nature of the papers.</p> <p>Paper 2 You will need to pick a theme for the first part of your conversation, the other 2 themes will be covered by the photo card, and the second part of the conversation. There will also be a role play.</p> <p>Paper 4 Specific topics to revise:</p> <ul style="list-style-type: none"> • Family and friend relationships (Unit 1) • Free time (unit 3) • Local area (unit 5) • Holidays (unit 8) • School life and future plans (units 9, 10, 11)

Subject	Summary of Exam (Type/length)	Topic content
Food Studies	1 hour	<ul style="list-style-type: none"> • CA1 Health and safety relating to food, nutrition and the cooking environment • CA2 Food legislation and food provenance • CA3 Food groups, key nutrients and a balanced diet • CA4 Factors affecting food choice • CA5 Food preparation, cooking skills and techniques • CA6 Recipe amendment, development and evaluation
Geography	Paper 1 90 minutes This paper will be a combination of Paper 1,2 and 3	<p>Paper 1 UK Physical Landscapes (UK Landscapes, coastal processes, landforms and management strategies)</p> <p>Paper 2 Urban Issues and challenges (patterns of urban change, urban growth in Rio de Janeiro, urban growth in Birmingham, urban regeneration and urban sustainability)</p> <p>Paper 3 Fieldwork (Carding Mill Valley and Longbridge)</p> <p>Revision checklists and additional resources are available on classcharts.</p> <p>All students have been provided with a Bishop Challoner revision guide</p> <p>AQA revision guides are available to purchase on SchoolComms</p>
History	<p>Paper 1 1 hour 20 minutes</p> <p>Paper 2 55 minutes</p>	<p>Paper 1: Crime and Punishment through time, 1000-present day, including Whitechapel 1875-1900</p> <p>https://www.bbc.co.uk/bitesize/guides/zqsqjsg/revision/1 https://www.bbc.co.uk/bitesize/guides/zqsqjsg/revision/1 https://www.bbc.co.uk/bitesize/guides/z3ib3i6/revision/1 https://www.bbc.co.uk/bitesize/guides/zn9sn9g/revision/1</p> <p>Paper 2: Cold War, 1941-1991</p> <p>https://www.bbc.co.uk/bitesize/guides/z3h9mnb/revision/1 https://www.bbc.co.uk/bitesize/guides/zyt42p3/revision/1 https://www.bbc.co.uk/bitesize/guides/zwp86fr/revision/1</p> <p>For both papers:</p> <ul style="list-style-type: none"> • Revision Lists are on Class Charts. • Revision resources are also on Class Charts. • Educake 'Revision Wizard' • Revision Guides are available at a discounted price on School Comms
Mathematics	<p>Paper 1 Non-Calculator 1 hour 30 minutes</p> <p>Paper 2 Calculator 1 hour 30 minutes</p> <p>Paper 3 Calculator 1 hour 30 minutes</p>	Revision lists in PDF format, one for Higher and one for Foundation. Have emailed PDF copies to H Hearnden, the revision lists include dates of assessments.

Subject	Summary of Exam (Type/length)	Topic content
Media	A full Component 1 Paper 90 minutes	<p>Students should revise all Component 1 topics:</p> <p>Media Language & Representation:</p> <ul style="list-style-type: none"> • Magazines (GQ and Vogue) • Film marketing (MWTGG and No Time To Die) • Print advertising (This Girl Can and Quality Street) <p>Media Audiences and Industries:</p> <ul style="list-style-type: none"> • Film industry (the James Bond franchise) • Radio (The Archers) • Video Games (Fortnite) <p>There is no need to revise Newspapers (this unit will be taught in Autumn2 half term) and Man Like Mobeen (a Component 2 text)</p>
Music	Component 3 Appraising Music 75 Minutes Listening paper	<p>Topics covered:</p> <ul style="list-style-type: none"> • Beethoven: Piano Sonata in C • Spalding: Samba Em Preludio • Queen: Killer Queen • Purcell: Music For A While • Bach: Brandenburg Concerto* (what we have done on this set work so far) • Afro Celt Sound System: Release <p>5 x listening questions 1 x Dictation question – pitch and rhythm 1 x Unfamiliar listening question 1 x Comparison essay (1 set work, 1 unfamiliar)</p> <p>Skeleton scores will be provided for the Unfamiliar listening and the Comparison essay</p>
PE GCSE	Paper 1 content only 1 hour 60 Marks	<p>Topics covered:</p> <ul style="list-style-type: none"> • Location of major bones • Functions of the skeleton • Types and components of synovial joints • Types of movement • Location of major muscle groups • Roles of muscles in movement • Lever systems • Planes and Axes of movement • Structure and function of respiratory system • Structure and function of cardiovascular system • Aerobic and Anaerobic exercise • Short term effects of exercise • Long term effects of exercise • Components of fitness • Principles of training • Optimising training • Warm ups and Cool Downs • Training methods • Prevention of injury
AQA Physics Separate sciences	Paper 1 100 marks	<p>Paper 1 will cover the following.</p> <ul style="list-style-type: none"> • Topic 1: Energy • Topic 2: Electricity • Topic 3: Particle Model of Matter

Subject	Summary of Exam (Type/length)	Topic content
	1 hour 45 minutes	<ul style="list-style-type: none"> • Topic 4: Atomic Structure <p>Students will be given revision packs through the class teachers. Please continue to use Educake (online platform) and Physics and Maths Tutor as well for exam revision. https://www.physicsandmathstutor.com/</p>
Religious Education	Component 1 Foundational Catholic Theology 1 hour 30 minutes	<p>Topics covered: Origins and Meanings and Good and Evil</p> <p>Knowledge organisers found here: https://resources.edugas.co.uk/Pages/ResourceSingle.aspx?rId=1440</p> <p>Past papers and mark schemes found here: https://www.edugas.co.uk/qualifications/religious-studies-gcse/#tab_pastpapers</p> <p>Students will also be provided with revision resources during lesson and on Class Charts.</p>
Combined Science Biology	Paper 1 60 marks 1 hour 10 minutes	<p>Paper 1 will cover the following.</p> <ul style="list-style-type: none"> • Topic 1: Key concepts in biology • Topic 2: Cells and Control • Topic 3: Genetics • Topic 4: Natural selection and genetic modification • Topic 5: Health, disease and the development of medicines <p>Students will be given revision packs through the class teachers. Please continue to use Educake (online platform) and Physics and Maths Tutor as well for exam revision. https://www.physicsandmathstutor.com/</p>
Combined Science Chemistry	Paper 1 60 marks 1 hour 10 minutes	<p>Paper 1 will cover the following.</p> <ul style="list-style-type: none"> • Topic 1: Key Concepts in Chemistry • Topics 2: States of matter and mixtures • Topic 3: Chemical changes • Topic 4: Extracting metals and equilibria <p>Students will be given revision packs through the class teachers. Please continue to use Educake (online platform) and Physics and Maths Tutor as well for exam revision. https://www.physicsandmathstutor.com/</p>
Combined Science Physics	Paper 1 60 marks 1 hour 10 minutes	<p>Paper 1 will cover the following.</p> <ul style="list-style-type: none"> • Topic 1: Key concepts in Physics • Topic 2: Motion and Forces • Topic 3: Conservation of energy • Topic 4: Waves • Topic 5: Light and the electromagnetic spectrum • Topic 6: Radioactivity <p>Students will be given revision packs through the class teachers. Please continue to use Educake (online platform) and Physics and Maths Tutor as well for exam revision. https://www.physicsandmathstutor.com/</p>