

Year 11 Mock Examinations
Monday 28th November 2022 to Wednesday 14th December 2022

| Subject | Summary of Exam (Type/length) | Topic content |
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| Art and Design | 1 x 5 hour piece exploring chosen style from previous artists | A study using own imagery surrounding a chosen artist style. Students will have 1 x 2 hour session and 1 x 3 hour session to complete this. <ul style="list-style-type: none"> • Materials available (and decided before): Watercolour • Pen • Charcoal pencil • Oil paint • Coffee • Monoprinting <p>It is important to bring the Year 11 sketchbook to every session.</p> |
| Biology Separate sciences | A Paper 1 mock exam 1 hour 45 minutes | 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 |
| Business Enterprise | Actual exam is on: 25 th November | Mocks conducted in lessons. |
| Business | Theme 1 Paper 90 minutes | Types of costs Market segmentation Risks and rewards for entrepreneurs Added value Cash flow Break even and margin of safety Sources of finance External influences – unemployment Legislation – employment Stakeholders Franchises Interest and loan repayments Branding Aims and objectives Market research Business ownership Marketing Changes in technology |
| Chemistry Separate sciences | A Paper 1 mock exam 1 hour 45 minutes | 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 |
| Computer Science | 2 Papers 90 minutes each | Paper 1 <ul style="list-style-type: none"> • Data representation - binary conversion, data storage, storing sound and image, character sets • Compression • CPU components and registers • RAM, ROM, Secondary Storage • Networks - LAN and WAN, factors affecting performance • Network Hardware - Router, Cabling • Encryption |

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| | | <ul style="list-style-type: none"> • Artificial Intelligence and factors of it • System security - physical security and software security • Legislation <p>Paper 2</p> <ul style="list-style-type: none"> • Exam Reference Language - sequence, selection, iteration, casting, functions • Computation thinking - decomposition, abstraction • Boolean logic - logic gates, truth tables, Boolean algebra • Flowcharts • Trace table • Sorting algorithms - bubble, insertion, merge • Searching algorithms - binary, linear • Data types • Databases - SQL • Testing - boundary, normal, erroneous |
| <p>Design Technology</p> | <p>1 paper</p> <p>2 hours</p> <p>Content from core technical principles, specialist technical principles and designing and making principles</p> | <p>Core</p> <ul style="list-style-type: none"> • Enterprise (Including Fairtrade, Crowd Funding, Virtual Marketing, Co-operatives) • How power is generated from coal, oil, gas. Arguments for and against. • How power is generated from wind, solar, tidal, hydro electrical, biomass. Arguments for and against. • The impact on the use of finite and non finite resources on the planet • Energy storage- How kinetic pumped storage systems work, how alkaline and rechargeable batteries store energy • Smart materials including shape memory alloys, thermochromic pigments, photochromic pigments • Technical textiles- conductive fabrics, fire resistant fabrics, kevlar, microfibres, microencapsulation • Levers- first, second, third order • Linkages • Rotary systems- cams and followers, gear trains, pulley and belts • Natural and man made timbers- Ash, beach, mahogany, oak, balsa, larch, pine, spruce, MDF, Plywood, chipboard • Ferrous and non ferrous metals- Low carbon steel, cast iron, high carbon steel, Aluminium, copper, tin, zinc, brass, stainless steel, high speed steel • Thermosetting plastics- Epoxy resin, melamine formaldehyde, phenol formaldehyde polyester resin, urea formaldehyde <p>Specialist</p> <ul style="list-style-type: none"> • Production aids- What a template is and how it is used • Wastage processes with timber- sawing, drilling, cutting • The preparation and application of finishes for functional and aesthetic reasons (painting, varnishing and tanning) • Sources and origins- Seasoning, conversion and manufacture of man made boards <p>Designing and making</p> <ul style="list-style-type: none"> • Market research- interviews, focus groups, product analysis • Ergonomics and anthropometrics • Design for the elderly and disabled |

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| | | <ul style="list-style-type: none"> • Environmental influences that affect designing and making (including deforestation and increases in carbon dioxide leading to global warming) • Designers- Ettore Sottsass and Marcel Breuer Need to know what influenced them, their design trademarks and 3 of their designs/products • Companies- Need to know two of the following • Alessi • Apple • Braun • Dyson • Gap • Primark • Under Armour • Zara. What makes them successful? What is their design strategy? What do the products they manufacture have in common? • working drawings: 3rd angle orthographic, using conventions, dimensions and drawn to scale • Isometric Projection |
| English Language | <p>English Language Paper 1 1 hour 45 minutes</p> <p>English Language Paper 2 1 hour 45 minutes</p> | <p>English Language Paper 1 Q1 – List 4 things you learn about [4marks] Q2 – How does the writer use language to describe...[8marks] Q3 – How does the writer use structure to interest the reader? [8 marks] Q4 – To what extent do you agree/ disagree with the statement [20 marks] Q5 – Descriptive/ narrative writing based on a picture [40 marks]</p> <p>English Language Paper 2 Q1 – Shade the 4 true statements [4 marks] Q2 – Write a summary of the similarities/ differences between two things in the text [8 marks] Q3 – How does the writer use language to ... [12 marks] Q4 – Compare the way writers think/ feel on a topic across two extracts [16 marks] Q5 – Persuasive/ informative writing responding to a statement [40 marks]</p> |
| French | <p>Paper 1 - Listening Foundation 35 minutes Higher 45 minutes</p> <p>Paper 2 - Speaking Conducted between Tuesday 15th November and Thursday 17th November</p> <p>Paper 3 - Reading Foundation 50 minutes Higher 1 hour</p> <p>Paper 4 - Writing Foundation 1 hour Higher 1 hour 15 minutes</p> | <p>This year students will be divided into tiers, and will be sitting either a Higher or a Foundation mock GCSE. This decision will be based on their target grades.</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 At Foundation tier, topics to revise:</p> <ul style="list-style-type: none"> • free time (unit 3) • Local area (unit 5) • School life (units 9-10) • Future plans (units 11-12) <p>At Higher tier, topics to revise:</p> <ul style="list-style-type: none"> • Sports (unit 3) • Local area (unit 5) • School life (units 9-10) • Future plans (units 11-12) |

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| Geography | Paper 1 and 2 combined mock exam 1 hour 30 minutes | <p>Paper 1:</p> <p>The Living World</p> <ul style="list-style-type: none"> • Ecosystems • Tropical rainforests (location, physical characteristics, plant and animal adaptations) • Deforestation (causes, impacts and management) • Tropical Rainforest case study: Malaysia (opportunities and challenges) • Deserts (location, physical characteristics, plant and animal adaptations) • Desertification • Hot desert case study: Thar Desert (opportunities and challenges) <p>UK Physical Landscapes</p> <ul style="list-style-type: none"> • UK Landscapes (location of uplands, lowlands and river systems) • Coastal processes (waves, weathering, mass movement, erosion, transportation, deposition) • Coastal landforms of erosion (headlands and bays, cliffs, wavecut platforms, caves, arches and stacks) • Coastal landforms of deposition (beaches, sand dunes, spits, bars) • Coastal management strategies (hard and soft engineering, Lyme Regis case study) • River long and cross profiles • River processes (erosion, transportation and deposition) • River landforms of erosion (interlocking spurs, waterfalls, gorges, meanders, oxbow lakes) • River landforms of deposition (levees, floodplains, estuaries) • Flooding (human and physical causes, hydrographs) • River management (hard and soft engineering, Jubilee River case study) <p>Paper 2:</p> <p>Urban Issues and Challenges</p> <ul style="list-style-type: none"> • Urban growth around the world • Urban growth in LIC/NEE (causes, opportunities and challenges, Rio de Janeiro case study) • Urban growth in cities in the UK (causes, opportunities and challenges, Birmingham case study) • Urban regeneration in the UK (Longbridge example) • Urban sustainability |
| Health and Social Care | Paper 1 1 hour 30 minutes | <p>The exam builds on the knowledge, understanding and skills acquired and developed in Components 1 and 2.</p> <p>Students will be given a case study and will assess an individual's health and wellbeing, drawing on their understanding of life events from Component 1.</p> <ul style="list-style-type: none"> • The effects of the: <ul style="list-style-type: none"> • Environmental factors • Lifestyle factors • Economic factors • Genetic inheritance • Ill-health • Diet • Amount of exercise |

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| | | <ul style="list-style-type: none"> • Substance use • Personal hygiene • Social, cultural and emotional factors • Impact of life events on a person's health and well-being • Interpret physiological indicators <p>For questions 4 and 5, students will need to apply the information from questions 1-3 to design a health and wellbeing improvement plan for the individual:</p> <ul style="list-style-type: none"> • Question 4 – 3 specific goals with a corresponding long and short term SMART target and source of support (12 marks) • Question 5 – Give a rationale for your plan, explaining how it takes into account the individual's needs, wishes and circumstances (10 marks) |
| <p>History</p> | <p>Paper 1 Weimar and Nazi Germany</p> <p>1 hour 20 minutes</p> <p>Paper 2 Crime and Punishment</p> <p>55 minutes</p> | <p>Paper 1 – Weimar and Nazi Germany</p> <p>Growth in support for the Nazis, 1929-1932:</p> <ul style="list-style-type: none"> • The impact of the Great Depression • The growth of unemployment • The failures of the Weimar government to deal with unemployment • The growth of support for the Communists • Reasons for increased support for the Nazis (propaganda, SA, Hitler) <p>The creation of a dictatorship, 1933-1934</p> <ul style="list-style-type: none"> • The Reichstag Fire • The Enabling Act • The Night of Long Knives • The death of Hindenburg and Hitler becoming Fuhrer <p>Nazi policies towards women</p> <ul style="list-style-type: none"> • Nazi views on women and the family • Nazi policies towards women, including marriage and family, employment and appearance <p>Paper 2 – Crime and Punishment</p> <p>Laws and Crime in Medieval England, 1000-1500</p> <ul style="list-style-type: none"> • Forest Laws and Poaching • Social Crime • Crime against person, property and authority <p>Law Enforcement (policing and trials) in Medieval England, 1000-1500</p> <ul style="list-style-type: none"> • Role of the community: hue and cry, tithings, parish constables • Growing centralisation: coroners, JPs, royal judges, Assizes of Clarendon <p>Punishment and its purpose in Medieval England, 1000-1500</p> <ul style="list-style-type: none"> • Deterrence and Retribution • The wergild and murdrum • Types of Corporal and Capital punishment <p>Case Study: the role of the Church in crime and punishment</p> <p>Sanctuary</p> <ul style="list-style-type: none"> • Benefit of the Clergy • Henry II and Thomas Becket • Church Courts and their problems • Trial by ordeal and when it ended <p>Laws and Crime in Early Modern England, 1500-1700</p> <ul style="list-style-type: none"> • New laws on Vagabondage, Witchcraft and Smuggling • The changing laws of heresy and treason |

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| | | <p>Law Enforcement (policing and trials) in Modern England, 1500-1700</p> <ul style="list-style-type: none"> • Role of the community: hue and cry, night watchmen • Changing law enforcement: Thief takers, use of the army, Habeas Corpus <p>Punishment and its purpose in Early Modern England, 1500-1700</p> <ul style="list-style-type: none"> • Deterrence, retribution and rehabilitation • The Bloody Code and reasons for it • Types of punishments <p>Case Study 1: The reasons for and consequences of the Gunpowder Plot 1605</p> <ul style="list-style-type: none"> • The plotters and reasons for their crimes • Their punishments and reasons for the harshness <p>Case Study 2: Matthew Hopkins and reasons for the Witch-craze of 1645-1647</p> <ul style="list-style-type: none"> • The role of Matthew Hopkins • Other causes of the witch-craze • Punishments of those accused |
| iMedia | <p>1 paper</p> <p>75 minutes</p> | <ul style="list-style-type: none"> • Production methods - moodboard, visualisation diagram (creating one), Mind maps (creating one), storyboard • Primary and secondary research • Hardware - graphics tablet • File formats • Legislation - intellectual property rights, copyright, trademark, Creative Commons, royalty free • Planning - tasks, milestones, contingencies |
| Mathematics | <p>Paper 1 Non Calculator 90 minutes</p> <p>Paper 2 Calculator 90 minutes</p> <p>Paper 3 Calculator Time 90 mins</p> | <p>Students will complete either higher or foundation tier papers.</p> <p>Please refer to maths revision list.</p> |
| Media | <p>Component 1 – Exploring the Media</p> <p>90 minutes</p> | <p>You will need to revise the following topics:</p> <ul style="list-style-type: none"> • Print Advertising • Film marketing and Industry • Magazines • Newspapers and the Newspaper Industry • Fortnite • The Archers |
| Music | <p>1 x Listening paper</p> <p>1 hour</p> | <p>1 x Listening question on each of the set works covered so far:</p> <ul style="list-style-type: none"> • Purcell – Music for a While • Afro Celt Sound System – Release • Queen - Killer Queen • Esperanza Spalding - Samba Em Preludio <p>1 x Dictation question in treble or bass clef, including pitch and rhythm</p> |
| PE GCSE | <p>1 Paper mixing content from Paper 1 and 2</p> <p>1 Hour</p> | <ul style="list-style-type: none"> • Skeletal system • Joints • Muscular system • Lever systems |

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| | | <ul style="list-style-type: none"> • Plans of movement • Axis of rotation • Structure and function of cardiovascular system • Components of fitness • Principles of training • Optimising training (training methods) • Prevention of injury • Characteristics of skillful movement • Classification of skills • Goal Setting |
| Physics Separate sciences | A Paper 1 mock exam 1 hour 45 minutes | 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 Topic 7: Astronomy |
| Religious Education | 90 Minute Paper based on content from year 10: Component 1: Catholic Theology Themes 1 & 2: Origins & Meanings and Good & Evil | Component 1: Applied Catholic Theology Theme 1: Origins & Meanings Key Topics: <ul style="list-style-type: none"> • Origins & Meanings • Views on Creation (Christian – Catholic & Non; Non-Religious, Scientific) • Sanctity of Life (All life, Human Life, Speciesism) • Quality of Life (Christian – Catholic & Non; Non-Religious) • Views on Abortion (Christian – Catholic & Non; Non-Religious) • Genesis Accounts • Environment (Christian – Catholic & Non; Non-Religious) • The Bible (Revelation, Inspiration) • Artefacts (Creation of Adam, Tree of Life) • Living Beliefs & Values (CST, Justice, Inter-faith dialogue, charity-CAFOD & SVP) Theme 2: Good & Evil <ul style="list-style-type: none"> • Good, evil and Suffering (what is it and where did it come from) • Catholic perspective (St. Augustine Theodicies) • Other views on nature and origins of evil • Goodness of God • The Challenge of Evil (Problem; J.L Mackie/Hume/John Hick) • Catholic ambivalence to suffering: is it <i>always</i> evil? (Jesus' passion/Isaiah 53) • The Trinity (St. Patrick/ Nicene Creed) • Ideas about the Trinity (Father, Son, Holy Spirit (SoWa each/St. Augustine-love) • Jesus (Incarnation/Kenosis & link to problem of evil/ Salvifici Doloris) • Moral Authority (Jesus' Teachings/10 Commandments/ Natural Law/Conscience/Virtues) • Statues (La Pietà/their use) • Popular devotion (Pilgrimage/Rosary- sorrowful mysteries) |
| Combined Science Biology | A Paper 1 1 hour 10 minutes | 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 |

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| Combined Science Chemistry | A Paper 1 1 hour 10 minutes | Topic 1: Key Concepts in chemistry Topic 2: States of matter and mixtures Topic 3: Chemical changes Topic 4: Extracting metals and equilibria |
| Combined Science Physics | A Paper 1 1 hour 10 minutes | 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 |