

COWLEY INTERNATIONAL COLLEGE



**Rehearsal Examinations
December 2023**

Examination Procedures for Students

All examinations will be held in the Sports Hall or Cowley Hall (6th form site) unless otherwise advised. Make sure you know when and where they are to take place, and where you are sitting - this should be recorded on your Examination Card.

- Students should ensure that they have with them any necessary equipment, e.g. calculators, 2 black pens, pencils, rulers etc...*
- Mobile phones and other electronic devices (including Smart watches) are not allowed in the examination room under any circumstances. Students found with a mobile phone, or any other type of device, on their person will be subject to the Rules of the Examination Board, which could result in their paper being disqualified.*
- Students should make their way to the exam venue and arrive no later than the advertised time. Prior to an afternoon examination, students may be required to have an early lunch. Further details will be provided during morning registration on the day of the examination and be displayed on the corridor screens.*
- Seat numbers will be given to you by your Team Tutor, you should write these on your Examination Card. They will also be posted near to the entrance to the examination room and on the Year Team office window. It is the responsibility of the student to know their seat/room number.*
- Students who are late may not be allowed to enter the examination room.*
- Students should enter and dismiss from the examination room silently and listen carefully to instructions.*
- Students should check carefully the paper they are issued to ensure it is the correct examination / tier of entry.*
- Any queries should be directed at a member of staff or an invigilator by raising your hand.*
- Students should not communicate verbally or non-verbally with any other student when inside the examination venue.*
- Students will be dismissed back to normal lessons after the examination has ended.*

I confirm that I have read and understood the procedures at this Examination Centre for all formal GCSE Examinations.

Signed: _____ Print name: _____

Date: _____

*Notice for Centre – all boxes should be ticked by any person(s) completing an Examination at the Centre.

Rehearsal Examination Timetable 2023

| Week A (Y11 unless stated) | | Periods 1&2 | Periods 3&4 | Period 5 |
|----------------------------|---------------|--------------------------|--|---|
| Monday | 4th December | English Language (1h 45) | Biology (1h 15) *Separates 1hr 45 | Construction (1hr) Hospitality (1hr) |
| Tuesday | 5th December | Maths (1h 30) | Chemistry (1 h 15) *Separates 1 hr 45 | Engineering (1hr) |
| Wednesday | 6th December | English Literature (2h) | Physics (1h 15) *Separates 1hr 45 | |
| Thursday | 7th December | Geography (1h 30) | German (1h 45) Higher 2h 15 | |
| | | History (1h 45) | Mandarin (1h 45) Higher 2h 15 | |
| Friday | 8th December | Maths (1h 30) | PE (1hr) Computer Science (1hr 30) Business (1hr 45) | |
| Week B (Y11 unless stated) | | Periods 1&2 | Periods 3&4 | Period 5 |
| Monday | 11th December | | | |

Revision Timetable

| | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
|--------------|--------|---------|-----------|----------|--------|----------|--------|
| 8:30 – 9 am | | | | | | | |
| 9 – 9:30 | | | | | | | |
| 9:30 – 10 | | | | | | | |
| 10 – 10:30 | | | | | | | |
| 10:30 – 11 | | | | | | | |
| 11 – 11:30 | | | | | | | |
| 11:30 – 12 | | | | | | | |
| 12 – 12:30 | | | | | | | |
| 12:30 – 1 | | | | | | | |
| 1 – 1:30 | | | | | | | |
| 1:30 – 2 | | | | | | | |
| 2 – 2:30 | | | | | | | |
| 2:30 – 3 | | | | | | | |
| 3 – 3:30 | | | | | | | |
| 3:30 – 4 | | | | | | | |
| 4 – 4:30 | | | | | | | |
| 4:30 – 5 | | | | | | | |
| 5 – 5:30 | | | | | | | |
| 5:30 – 6 | | | | | | | |
| 6 – 6:30 | | | | | | | |
| 6:30 – 7 | | | | | | | |
| 7 – 7:30 | | | | | | | |
| 7:30 – 8 | | | | | | | |
| 8 – 8:30 | | | | | | | |
| 8:30 – 9 | | | | | | | |
| 9 – 9:30 | | | | | | | |
| 9:30 – 10 pm | | | | | | | |

| Key | |
|-----|-----------------------------|
| | School |
| | Bedtime |
| | Dinner |
| | Relaxation/Socialising time |
| | |
| | |
| | |
| | |

To complete your revision timetable, remember the following things:

- Start by blanking out things that don't change often (school/sports commitments etc).
- Set a reasonable bed time – enough to give your brain recuperation time. This is essential for converting short term memories to long term.
- Keep aside a dedicated dinner time – it's important to eat well but also take time to chat with family.
- Block out some relaxation time. You do not want to burn out. *But remember to always prioritise revision*

Now you're ready to complete your revision slots...

- Break every subject down into its **component topics**
E.g. ENGLISH LANGUAGE: Reading; transactional writing; narrative writing
ENGLISH LITERATURE: A Christmas Carol; An Inspector Calls; Macbeth; unseen poetry.
- Match subjects based on *skills* (revise scientific and mathematical subjects together and essay-based subjects together).
- BE FLEXIBLE. Be prepared to alter & adapt this revision timetable every half term.

ENGLISH LANGUAGE

Paper 2 (AQA)


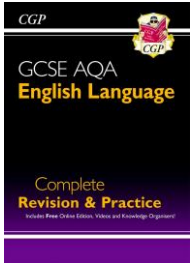
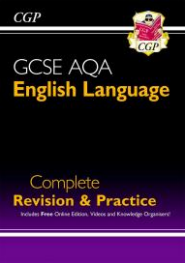
Writers' Viewpoints and Perspectives

EQUIPMENT
REQUIRED

- 2 black pens
- Highlighters
- Ruler

Date: **Monday, 4th December 2023**

Length of paper: **1 hour 45 mins**

| Topic | Details | Revision guide reference |  Pod Playlist Title |
|---|---|--|---|
| SECTION A Reading Non-Fiction Two non-fiction texts: one from the 21 st century and one from either the 19 th or 20 th Century ABOUT THE SAME TOPIC. | About 1 hour. 40 marks. Q1 – 5 mins (list 4 things) /4 Q2 – 10 mins (language) /8 Q3 – 15 mins (structure) /12 Q4 – 25 mins (response to statement) /16 In Q1, Q2 and Q4, you will be directed to look at certain lines – it is imperative you only answer on the lines mentioned. Think carefully about writers' craft. |  All pages referring to PAPER 2 Section A: Reading p6+7, p20-33, p36-41 p42-55, p104-114 | English Language ↳ Reading Non-Fiction & Transactional Writing ↳ <i>Reading Non-Fiction</i> ↳ All pods ----- English Language ↳ Reading & Writing Skills ↳ All 9 pods |
| SECTION B Writing Non-Fiction One transactional writing task to complete <i>(letter, article, speech, essay)</i> | About 45 mins. 40 marks. ONE non-fiction writing task to complete. You will be given a statement to which you must respond. <ul style="list-style-type: none"> - Plan your response carefully using the Q5 plan you've learnt in class: Remember ETHOS/PATHOS/LOGOS - Be engaging, original + ambitious with vocabulary - Always PROOF READ to check |  All pages referring to PAPER 2 Section B: Writing p8, p70-72, p80-91, p116 | English Language ↳ Reading Non-Fiction & Transactional Writing ↳ <i>Transactional Writing</i> ↳ All pods ----- English Language ↳ Spelling, Punctuation and Grammar ↳ All 8 pods |

ANSWER ALL QUESTIONS. If you leave anything blank, you will seriously affect your grade.

Best ways to revise for this paper:

- READING non-fiction writing eg news articles, speeches, autobiographies, leaflets etc
- WRITING different types of non-fiction texts (*letter, article, speech, essay*)
- Using your purple revision guide and completing practice questions
- Learning off by heart the language features writers can use in non-fiction texts eg NAVAPP, SMARPO, AFOREST (Ethos, Pathos, Logos) etc & their effects
- Learning off by heart the answer structures & plans we use for each question, esp Q5



ENGLISH LITERATURE Component 1 (Eduqas)

EQUIPMENT REQUIRED

- Black pen x2
- Highlighters

Date of Examination: **Wednesday, 6th December 2023**

Length of paper: **2 hours**

| Topic | Details |  Pod Playlist Title | Other Revision Resources |
|----------------------------|---|--|--|
| MACBETH 1 hour | Be prepared to answer on: Key themes, mainly: <ul style="list-style-type: none"> • Ambition and Kingship Major characters <ul style="list-style-type: none"> • Macbeth, Lady Macbeth, Banquo | <ul style="list-style-type: none"> • Macbeth Characters • Macbeth Themes | CGP revision guides for Macbeth & Poetry  |
| ANTHOLOGY POETRY 1 hour | Revise: <ul style="list-style-type: none"> • Nature and War poems in your anthology • Context of the poems • Poetic devices/ terms & why poets have used these techniques • The 7 questions | <ul style="list-style-type: none"> • Nature Poetry • War Poetry | Your class' MS Team page BBC Bitesize |

Remember:

Macbeth Paper – 1 hour, 40 marks in total split into two sections:

- a) extract question /15 (20-25mins)
- b) essay question /20+5 (35-40mins) – reread to check SPAG

Poetry Paper – 1 hour, 40 marks in total split into two sections:

- a) analysis of given poem /15
- b) comparison of given poem with another of your choice /25

*For poetry you are also marked on your knowledge of **CONTEXT** – when was the poem written? Who was the poet? What was their message? What were their views?*

MATHS

Higher Paper

EQUIPMENT REQUIRED

- Pen Pencil Ruler
- Scientific Calculator

Date of Examination: **Tuesday 5th December & Friday 8th December 2023**

Length of paper: **Both 1hr 30 mins**

GCSE Pod Playlist Title: **Mathswatch** P2 June 22 (H/F)

| Sub-Topic |
|---------------------------------|
| Algebra expanding & factorising |
| Transformations |
| Nearest value |
| Division problem |
| Ratio & coordinates |
| % decrease |
| Money conversions |
| Using a calc. |
| Pressure equation |
| Box plots |
| Proportion |
| Equations of line |
| Negative enlargements |
| Proportion problem |
| Ratio |
| Venn diagrams |
| Volumes of cones and spheres |
| Sine & cosine rule |
| Functions |
| Circle theorems |
| Tan graphs |
| Quadratic inequalities |

MATHS

Foundation Paper

EQUIPMENT REQUIRED

- Pen Pencil Ruler
- Scientific Calculator

Date of Examination:
**Tuesday 5th December &
Friday 8th December 2023**

Length of paper:
Both 1 hr 30 mins

GCSE Pod Playlist Title:
Mathswatch P2 June 22 (H/F)

| Sub-Topic |
|---------------------------------|
| Rounding |
| Subtracting fraction |
| Mode |
| Multiples |
| Decimals into % |
| Ordering negatives |
| Shape names |
| Coordinates |
| Frequency polygon |
| Money problem |
| Angles |
| Function machines |
| 2 way tables |
| Inequalities |
| Averages from tables |
| Scale |
| Straight line graphs |
| Mean |
| Percentages |
| Tree diagrams |
| Algebra expanding & factorising |
| Transformations |
| Nearest value |
| Division problem |
| Ratio & coordinates |
| % decrease |
| Money conversions |
| Simultaneous equations |

Separates **BIOLOGY**

Higher Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Monday 4th December 2023**

| Topic | Details | Revision guide reference |
|------------------------------------|---|--------------------------|
| Cells | Structure of Plant and Animal Cells | P1-2 |
| Microscopy | $M = I \times A$ and use of correct units Electron and light microscopes | P5 |
| Pathogens | Defence against diseases - non specific | P84 |
| Photosynthesis | Required practical and limiting factors | P118 - |
| Transpiration | Definition and factors affecting it | P61 |
| Heart and Transplant Evaluation | Importance of valves and double circulation | P35 |
| Glucose Control | tests for glucose, how glucose conc in blood affects water potential in cells | P37 – Food tests |
| Exchange / stem cells | Small Intestines- methods of exchange | p12-13 / p25 |
| Drug Trials | Stages | P85 |
| Importance of enzymes in digestion | Products of digestion | P47 |

Included in the paper is checking on the validity of results- being able to draw a graph from given data and interpret information from tables.

Separates **BIOLOGY**

Foundation Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Monday 4th December 2023**

| Topic | Details | "Oxford revise" revision guide |
|--------------------------|--|--------------------------------|
| Organisation in Animals | Digestion, enzymes, food tests Human gas exchange, circulatory system, the heart, valves, blood vessels | B4 |
| Cell Transport | Diffusion, Osmosis & Active transport | B2 |
| Cell Division | Mitosis, stem cells & differentiation | B3 |
| Organisation in Plants | Structure of a leaf, transport vessels, factors affecting transpiration | B6 |
| Respiration | Anaerobic respiration in yeast Identifying variables in an investigation Taking measurements from scientific equipment | B12 |
| Communicable Disease | Antibiotics, stopping the spread of disease Microbiology required practical on antibiotics Calculation of a mean Malaria How the body prevents disease | B7 B8 |
| Non-communicable disease | Treating cardiovascular disease, comparing replacement valves | B10 |
| Cell Biology | Comparing light & electron microscopes, drawing/labelling an animal cell, function of organelles, comparing plant & animal cells, calculating magnification | B1 |
| Photosynthesis | Required practical for photosynthesis Identifying variables Drawing a graph | B11 |

Included in the paper is calculating a mean average, control variables, independent variables, drawing a graph and a line of best fit

Trilogy **BIOLOGY**

Higher Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Monday 4th December 2023**

| Topic | Details | "Oxford revise" revision guide reference |
|--------------------------|--|---|
| Cells and cell transport | Cell transport – Diffusion, Osmosis, Active transport Adaptations for exchanging substances Eukaryotes and Prokaryotes | Page 12 and 13 Page P13 Page 2 |
| Heart | Labelling the heart | Page 33 |
| Disease | Origins of penicillin, aspirin and digitalis Malaria | Page 73 Page 63 |
| Effect of exercise | Respiration rate Breathing rate | Pages 102 and 103 |
| Digestion | Amylase, protease and lipase; their substrates and products Food tests | Page 43 Page 35 |
| Plants | Transpiration Rate of transpiration Photosynthesis | Page 52 and 53 Page 55 worked example Page 92 |
| Microscopes | Correct use of the microscope Magnification | Page Pages 2 and 5 |

- **Included in the paper is:**
- **resolution (Page 5),**
- **plotting a graph and drawing a suitable curve of best fit (Page 58 Q3.3 practice question, P16 Q1.4 practice question)),**
- **predicting how a curve of best fit might change when different variables change,**
- **calculating the surface area of a cube (P105 worked example)**

Trilogy **BIOLOGY**

Foundation Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Monday 4th December 2023**

| Topic | Details | "Oxford revise" revision guide reference |
|-------------------------|---|--|
| Photosynthesis | Required practical for Photosynthesis Photosynthesis word equation Limiting factors | Pages 92 -95 |
| Cell transport | Diffusion Osmosis Adaptations for exchange substances. | Pages 12- 13 Pages 12- 13 Pages 13, 32 |
| Organisation in plants | Plant tissues Stomata | Page 32 Page 52 |
| Organisation in animals | The Heart Circulatory system The digestive system | Page 33 |
| Cell structure | Organelles Specialised cells Microscopes | Page 2 Page 3 Pages 2,5 |
| Spread of disease | Virus, Bacteria, Fungi, Protists Vaccines | Pages 62- 63 |
| Enzymes | Digestive enzymes Food tests | Page 43 |
| Respiration | Effects of exercise | Page 93 |

Included in the paper is calculating surface area, Magnification equation and variables.

Separates **CHEMISTRY**

Higher Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Tuesday 5th December 2023**

| Topic | Details | "Oxford revise" revision guide page |
|------------------------------------|--|-------------------------------------|
| Atomic Structure | <ul style="list-style-type: none">• Isotopes• History of the atom (including the plum pudding model and Rutherford's alpha scattering experiment) | Pg 3 Pg 2 |
| Development of the periodic table. | <ul style="list-style-type: none">• History of the periodic table• Reactions of group 1 and group 7 | Pg 38-39 |
| Bonding, structure and properties | <ul style="list-style-type: none">• Bonding of carbon (including fullerenes, nanotubes and graphene)• Nanoparticles• Simple covalent bonding (including dot and cross diagrams and explanations of properties) | Pg 15 Pg 48-49 Pg 14-15 |
| Reactions of acids | <ul style="list-style-type: none">• Reactions of acids and alkalis• Titrations method and calculations | Pg 88-89 Pg 69 |
| Quantitative Chemistry | <ul style="list-style-type: none">• Reacting mass calculation• Volume of gases calculations | Pg 59 Pg 68 |
| Energy Changes | <ul style="list-style-type: none">• Endo/exothermic reactions• Bond energies calculations• Energy profile diagrams• Required practical-measuring temperature changes | Pg 110-111 Pg 113 |
| Chemical cells and Fuel cells | <ul style="list-style-type: none">• Voltage in fuel cells• Hydrogen fuel cells | Pg 111 |
| Electrolysis | <ul style="list-style-type: none">• Extraction of aluminium from aluminium oxide• Electrolysis of solutions | Pg 99 |

Trilogy CHEMISTRY

Higher Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Tuesday 5th December 2023**

| Topic | Details | "Oxford revise" revision guide reference |
|------------------------|--|--|
| Quantitative Chemistry | Concentration = mass/volume | Revision 224-225, Questions 228-233 |
| | Mr and percentage by mass | |
| | Avogadro's constant (<i>knowledge of using balanced equations, limiting reactants and reacting masses are NOT required</i>) | |
| Variables | Control, dependent and independent | |
| Chemical Reactions | Reactivity series | Revision 234, Questions 238-243 |
| | pH scale and universal indicator (<i>knowledge of strong and weak acids, the making salts required practical and neutralisation reactions is NOT required</i>) | Revision 244, Questions 248-253 |
| | State symbols | Revision 224 |
| Energy changes | Required practical-investigating temperature changes | Revision 267 |
| | Reaction profiles | Revision 264, Questions 268-273 |
| | Bond Energy calculations | Revision 265, Questions 268-273 |
| Structure and Bonding | Simple covalent bonding- including dot and cross diagrams and explanation of properties (<i>knowledge of giant covalent structures and fullerenes is NOT required</i>) | Revision 194, Questions 198-203 |
| | Ionic bonding – including explanation of properties (<i>knowledge of metallic structure is NOT required</i>) | Revision 204, Questions 208-213 |
| Periodic Table | History of the periodic table | Revision 214-215, Questions 218-223 |
| | Trends in reactivity and boiling point of group 1, 7 and 0 | |
| | Observations of group 1 and group 7 reactions | |
| Electrolysis | Electrolysis of aluminum oxide | Revision 254-255, Questions 258-263 |
| | Half Equations | |
| Maths Skills | Reading a graph Calculating gradient of a line | Revision 217, 287 |

Trilogy **CHEMISTRY**

Foundation Paper

You will need, pen, pencil, ruler, calculator

Date of examination: **Tuesday 5th December 2023**

| Topic | Details | "Oxford revise" revision guide reference |
|----------------------------|--|---|
| Energy Changes | Exothermic & Endothermic Reactions Reaction Profiles Required practical-investigating temperature changes | Revision 180-181, 258-259 Questions 184-189, 262-267 |
| Electrolysis | Electrolysis of copper chloride | Revision 240-241 Questions 244-249 |
| Chemical Changes | Salts & Acids Universal Indicator Balancing equations Required practical – Making salts | Revision 230-231 Questions 234-239 |
| Periodic Table | History of the periodic table Trends in reactivity and boiling point of group 1, 7 and 0 | Revision 210-211 Questions 214-219 |
| Atomic Structure & Bonding | Structure of the atom, masses, and charges - Ions Mass number & Atomic number Dot & Cross diagrams Covalent bonding | Revision 180-181, 190-191 Questions 184-189, 194-199 |
| Quantitative Chemistry | Calculating mass Concentration = mass/volume Mr and percentage by mass | Revision 220-221 Questions 224-229 |
| Chemical Reactions | Reactivity series State symbols | Revision 250-251, 230-231 Questions 252-257, 234-239 |
| Variables | Control, Dependent & Independent | |
| Math Skills | Taking readings from scientific apparatus Reading a graph Calculating gradient of a line Percentages | |

Variables Control, Dependent & Independent
 Math Skills Taking readings from scientific apparatus, reading a graph,
 Calculating gradient of a line, Percentages

Separates **PHYSICS**

Higher Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Wednesday 6th December 2023**

| Topic | Details | "Oxford revise" revision guide reference |
|------------------|---|--|
| Energy | Understanding efficiency including efficiency equation Kinetic and gravitational potential energy including equations ($E_k = 0.5mv^2$, $E_p = mgh$) Thermal conductivity Specific heat capacity and specific latent heat (including using equations) | P1-13 P14-25 |
| Electricity | Power including $P=VI$, $P=I^2R$, $P=E/t$ Mains electricity – frequency, voltage Series and parallel circuits Electrostatic force (static electricity) Equations $E = QV$, $V = IR$, $I = Q/t$ | P48-59 |
| Atomic Structure | Completing radioactive decay equations Properties/dangers of nuclear radiation (alpha, beta, gamma) Half-life problems | P72-95 |
| Particle Model | Density including using equation $\text{density} = \text{mass/volume}$ Calculating the volume of a cube Internal energy Using the particle model to describe different states of matter | P60-71 |

Included in the paper is standard form, naming physics and writing a method, re-arranging equations, reading graphs, reading information from tables, understanding variables in an investigation, sources of random/systematic errors, accuracy, precision, resolution

Separates **PHYSICS**

Foundation Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Wednesday 6th December 2023**

| Topic | Details | "Oxford revise" revision guide |
|----------------------------------|--|--------------------------------|
| Particle model | Using the particle model to describe different states of matter Using temperature/ time graphs to describe changes of state Density including use of equation: $\text{density} = \text{mass}/\text{volume}$ | |
| Energy | Using GPE equation: $\text{gravitational potential energy} = \text{mass} \times \text{gravitational field strength} \times \text{height}$ Factors that affect the amount of kinetic energy stored in an object Using specific latent heat equations: $\text{thermal energy for a change of state} = \text{mass} \times \text{specific latent heat}$ Non-renewable and renewable energy resources (advantages and disadvantages) RECALL of power equation ($\text{Energy} = \text{power} \times \text{time}$) | |
| Atomic Structure | Discovery of the atom Rutherford's experiment Properties of alpha, beta and gamma radiation Decay equations (alpha, beta and gamma) Ionisation | |
| Electricity | Circuit symbols Series and parallel circuits (current, potential difference, resistance) Use of $\text{charge} = \text{current} \times \text{time}$, $\text{energy} = \text{charge} \times \text{potential difference}$, | |
| Required practical Insulation | Why do insulate objects?, resolution of thermometer, use of specific heat capacity equation (equation given on AQA Physics equation sheet) | |

Included in the paper is extrapolation of graphs, choosing equipment to accurately take measurements, reproducible and repeatable data, calculating percentages, resolution,

Trilogy **PHYSICS**

Higher Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Wednesday 6th December 2023**

| Topic | Details | "Oxford revise" revision guide ref |
|----------------------|--|---|
| Electricity | Resistance in circuits Ammeters and voltmeters in circuits Relationship between current and potential difference of a resistor Current, potential difference and resistance equation Resistance in cables Resistance in parallel circuits Circuit symbols Thermistors Parallel circuits Power, current and potential difference equation AC and DC | 366-367 357 356 |
| Molecules and matter | Gas pressure Specific latent heat States of matter and changes of state Changes in particle arrangements during changes of state | 376-377 |
| Energy resources | Non-renewable resources meaning | 346 |
| Energy | Energy dissipation Specific heat capacity | 337 |
| Radiation | Changes in the nucleus for gamma emission Properties of gamma Risks of radiation Nuclear equations Half life | 396-397 |
| HSW | Significant figures Linear relationships Control variables | |

Trilogy **PHYSICS**

Foundation Paper

You will need; pen, pencil, ruler, calculator

Date of Examination: **Wednesday 6th December 2023**

POD Playlist: <https://members.gcsepod.com/pupils/assignments/assignment/1037341>

| Topic | Details | "Oxford revise" revision guide ref |
|--------------------------------------|--|---|
| Circuits | <ul style="list-style-type: none"> - Diagrams of components - Power equations - Charge equation - Resistance - Wiring ammeters and voltmeters - Variable resistors - Calculating resistance | 347 337 / 318 337 347 347 347 347 |
| Experiments | <ul style="list-style-type: none"> - variables - Errors (random ,zero, measurement) - anomalous definition - calculating a mean | Use GCSE POD video "Scientific Method" |
| Energy | <ul style="list-style-type: none"> - efficiency - energy equations - renewable and non-renewable energy | 319 319 326/27 |
| Radiation | <ul style="list-style-type: none"> - Rutherford's experiment - What happens when atoms absorb or emit electromagnetic radiation | 366 |
| Radioactive isotopes | <ul style="list-style-type: none"> - Count rate - Half life - Drawing lines of best fit - Blocking alpha, beta and gamma | 376/77 |
| Electrical safety & energy transfers | <ul style="list-style-type: none"> - Wiring plugs - Energy equations - Energy transfers in a toaster | 336 |
| Energy | <ul style="list-style-type: none"> - Gravitation potential energy and equation | 318 |
| Thermal energy | <ul style="list-style-type: none"> - specific latent heat - states of matter and particle arrangements | 356/57 |

HISTORY

EQUIPMENT REQUIRED

- Black pen
- Spare black pen

Date of Examination: **Thursday 7th December**

Length of paper: **1 hour 45 mins**

GCSE Pod Playlist Title: **History mock revision**

| Topic | Details | Revision guide reference |
|--|---|-------------------------------------|
| Early Elizabethan England 1558-1588 | Topics to revise: Role of the church Puritan challenges to the religious settlement. Mary, Queen of Scots. Education for all classes | See Class Charts and exercise books |
| Superpower relations and the Cold War, 1941–1991 | Cuban Revolution and Bay of Pigs 1961 Hungarian uprising 1956 The Yalta and Potsdam conferences. The building of the Berlin wall The 'Second Cold War' 1979-1985. | Use full revision guide |

Notes

All exam papers from previous years are available via this link for practice:

[Edexcel GCSE History Past Papers | Edexcel Exam Mark Schemes \(mmerevise.co.uk\)](https://mmerevise.co.uk) <https://mmerevise.co.uk/gcse-history-revision/gcse-history-past-papers/edexcel-gcse-history-past-papers/>

GEOGRAPHY

EQUIPMENT REQUIRED

- Black pen
- Pencil
- Ruler
- Calculator
- Highlighter

Date of Examination: **Thursday 7th December**

Length of paper: **1 hour 30 mins**

| Topic | Details | Revision guide reference | Pod Playlist Title |
|----------------------------------|--|-------------------------------|--|
| The challenge of natural hazards | Extreme weather Tropical storms Tectonic hazards | P. 29 P. 25-28 P. 18-23 | Geography December mock examination |
| The living world | Tropical rainforests Cold environments Global ecosystems | P. 42-46 P. 53-56 P. 41 | |
| Physical landscapes of the UK | Coastal landscapes Glacial landscapes | P. 61-67 P. 79-85 | |

Notes

Revision for all topics is required, not just those listed above. Questions worth 6 or more marks require you to bring in **all** of your geographical knowledge.

The Pods and revision guides may have different examples/case studies to the ones we have taught you – please try to keep to the examples you have studied in class, though other examples will be marked.

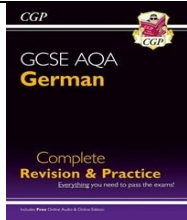
DO NOT answer the question on rivers.

German Higher

Listening / Reading / Writing / Speaking

Date of Examinations:

- **Listening** – in class Thursday 14th December P4 (all groups)
- **Speaking** – week beginning 27th November 2023
- **Reading/Writing** – Thursday, 7th December (2 hours 15 mins)

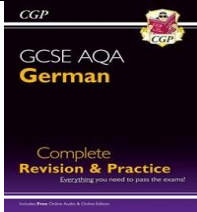
| Topic | Details | Revision reference | Pod Playlist Title |
|---|--|--|---|
| Writing Examination | | | |
| school topic OR social and global Issues topic | Complete one 90 word writing piece |  | GCSE Pods <i>Life at school/College Social and Global issues</i> |
| Freetime topic OR holidays topic | Complete one 150 word writing piece | | GCSE Pods <i>Technology in Everyday Life</i> |
| Speaking Examination | | | |
| THEME 1, 2 or 3 (excluding jobs/future plans topic) | YOU WILL COMPLETE: A ROLEPLAY A PHOTO CARD CONVERSATION IN GERMAN | Speaking test notes as provided by your teacher | |
| <p>Theme 1 covers family, friends, marriage, technology, free-time, healthy eating, eating out, sport</p> <p>Theme 2 covers house, town, local area, healthy living, the environment and holidays</p> <p>Theme 3 covers school subjects, life at school</p> <p>Note: Your classwork notes are the most relevant resource for all aspects of the assessment.</p> | | | |

German Foundation

Listening / Reading / Writing / Speaking

Date of Examinations:

- **Listening** – in class Thursday 14th December P4 (all groups)
- **Speaking** – week beginning 27th November
- **Reading/Writing** – Thursday, 7th December (1 hour 45 mins)

| Topic | Details | Revision reference | Pod Playlist Title |
|---|---|--|---|
| Writing Examination | | | |
| health topic | Complete 40 word writing piece (10 words per bullet point) |  | GCSE Pod <i>Social and Global issues</i> |
| school topic OR Family & friends topic | Complete one 90 word writing piece (22/24 words per bullet point) | | GCSE Pods <i>Life at school/College</i> <i>Social and Global issues</i> |
| Speaking Examination | | | |
| THEME 1, 2 or 3 (excluding jobs/future plans topic) | YOU WILL COMPLETE: A ROLEPLAY A PHOTO CARD CONVERSATION IN GERMAN | Speaking test notes as provided by your teacher | |
| <p>Theme 1 covers family, friends, marriage, technology, free-time, healthy eating, eating out, sport</p> <p>Theme 2 covers house, town, local area, healthy living, the environment and holidays</p> <p>Theme 3 covers school subjects, life at school</p> <p>Note: Your classwork notes are the most relevant resource for all aspects of the assessment.</p> | | | |

PE

EQUIPMENT REQUIRED

- Calculator
- Black Pen
- Ruler

Date of Examination: **Friday 8th December 2023**

Length of paper: **1 hr**

| Topic | Details |
|---|---|
| Characteristics of a skillful movement | Motor skills definition, efficiency, pre-determined, co-ordinated, fluent, aesthetic (<i>APE FC</i>) |
| Goal setting | Use of goal setting: for exercise/training, motivation, to improve performance. SMART: Specific, Measurable, Achievable, Recorded, Timed |
| Mental Preparation | Mental preparation techniques: imagery, mental rehearsal, selective attention, positive thinking. |
| Types of Guidance | Visual, verbal, manual, mechanical |
| Types of Feedback | Intrinsic, extrinsic, knowledge of performance, knowledge of results, positive feedback and negative feedback. |
| Physical activity and sport in the UK | <i>Current trends in participation, Sport England, NGB's, DCMS</i> |
| Physical activity and sport in the UK | <i>Current trends in participation, Sport England, NGB's, DCMS</i> |
| Participation in physical activity and sport | Factors affecting participation: Age, gender, ethnicity, religion/culture, family, education, time/work commitments, cost, disability, opportunity/access, discrimination, environment/climate, media coverage, role models. Strategies to improve participation: promotion, provision and access. |

Notes

Use files to create revision notes
Use the Everlearner to watch tutorials and complete tests
Use books, guides and flashcards given to you
Use Wednesday lunchtimes in R1 to catch up

Construction

EQUIPMENT REQUIRED

- Pen
- Pencil
- Ruler

Date of Examination: **Monday 4th December**

Length of paper: **1hr**

| Topic | Details |
|----------------------------------|---|
| The sector | -Types of buildings including residential and non residential -Facilities and systems -Job roles including trades people and professionals |
| The built environment life cycle | -Raw material extraction -Construction activities -Operation and Maintenance -Demolition and recycling |
| Types of building and structure | -Building infrastructure -Residential dwellings -Commercial Buildings -Industrial Buildings -Community Buildings |
| Technologies and materials | -Foundations -Substructure -Group floor -Super structure -Energy generation |
| Building structures and forms | -Cellular constructions -Rectangular frame constructions -Portal frame constructions -Heritage and traditional methods |
| Sustainable construction methods | -Financial benefits -Preserving the natural environment -Renewable resources -Waste disposal -Reusing materials -Recycling |
| Trades, employment and careers | -Bricklayer -Stonemason -Plasterer -Joiner -Electrician -Plumber -Painter and decorator -Floor layer |
| Health and safety | -Risk Assessments -Procedures -Regulations -PPE |

Notes: A further comprehensive and detailed revision list is available in the files section of **MS Teams** called **“WJEC Construction Comprehensive Revision List”**

Engineering

EQUIPMENT REQUIRED

- Pen
- Pencil
- Eraser
- Ruler
- Mathematical equipment inc Calculator

Date of Examination: **Tuesday 5th December**

Length of paper: **1hr**

| Topic | Details |
|--|---|
| Know and understand how engineering developments have an impact on the design of products and structures. | These include developments in: Structural design , focusing on the development of bicycles. Mechanical design , focusing on the development of theme park rides. Electronic design , focusing on the development of mobile phone/smart technology. |
| Know and understand how the development of engineering products are impacted by changes in: | Materials – improved strength to weight ratios, new alloys and smart materials. Improvements in plastics and textiles allowing for more diverse products and garments to be developed. Smart Technologies – development in connectivity between appliances and the user, how smart homes can improve living quality for people at home and at work. Electronic and micro-electronic components – allowing continued miniaturisation of devices and products, larger storage capabilities and faster processors, the inclusion of smart technology into more everyday devices making them more efficient and reliable. |
| Know and understand how the manufacture and use of engineered products have an environmental impact in terms of: | Materials development – Development of the use of sustainable materials and the way in which improved recycling has an impact on the environment. Costs – Improved and more efficient manufacturing techniques reducing the overall cost of some materials where others are still quite volatile and dependent on price of raw material such as oil. Transportation – The impact of the need to transport products globally and of how emissions impact the environment. Their use – How end users use and dispose of the products, and the impact on the environment. The ways in which countries approach sustainability and recycling. Their disposal – Looking at how different countries may approach the disposal of products after their failure or obsolescence. Recycling – Strategies for recycling products, where and how are they successful and where are they failing. Sustainability – Awareness that sustainability is the ability, in terms of both engineering processes and engineering products, to exist and develop without depleting natural resources for the future. |
| Know and understand the following materials and their properties, and when they should be used for a specific purpose. | Ferrous , e.g. mild steel, stainless steel, tool steel Non-ferrous , e.g. brass, copper, aluminium Thermoplastics , e.g. acrylic, nylon, HIPS Thermosetting plastics , e.g. urea formaldehyde, silicon Smart , e.g. thermochromic pigments/inks, shape memory alloy, nitinol wire Composite , e.g. carbon fibre, Kevlar. |
| Know and understand the physical properties of materials and how they can be applied in an engineering context. | Tensile strength – The ability of a material to resist elongating or breaking when stretched. Compressive strength – The capacity of a material to withstand loads without deforming. Hardness – The ability of a material to resist deforming when impacted. Toughness – The ability of a material to absorb energy (impacts) before it deforms. |

| | |
|--|--|
| <p>Know and understand the properties needed for the following engineering products:</p> <ul style="list-style-type: none"> • mobile phones • security alarm found in the home • bicycles • children's play areas. | <p>Malleability – The ability of a material to be hammered, pressed or rolled into thin sheets.</p> <p>Ductility – The ability of a material to be drawn or plastically deformed without fracturing.</p> <p>Conductivity – The measure of how efficiently electricity or heat can pass through a material.</p> <p>Corrosive resistance –How well a material can withstand damage caused by oxidization or other chemical reactions.</p> <p>Elasticity – The ability of a material to resist a distorting effect and to return to its original size and shape.</p> <p>Environmental degradation – How the environment is degraded or compromised through a range of situations such as air pollution, deforestation, water contamination etc.</p> |
| <p>Know and understand how destructive testing (DT) and non-destructive testing (NDT) is undertaken to determine physical properties of engineering materials, including:</p> | <p>Know and understand how testing is undertaken to determine the physical properties of materials.</p> <p>Should understand the difference between destructive and non-destructive testing.</p> <ul style="list-style-type: none"> • tensile strength • hardness • toughness • malleability • ductility • conductivity • elasticity. |
| <p>Understand processes, including relevant tools and equipment, used to produce engineering products including:</p> | <ul style="list-style-type: none"> • marking out • cutting • finishing • preparing • shaping • drilling • turning • brazing • joining – permanent and temporary fixings • filing • soldering. <p>Should also be aware that some items of equipment are capable of multiple tasks i.e., a lathe or miller.</p> <p>Joining should include riveting, brazing and welding for permanent joints and for temporary, mechanical fixings should be included</p> |
| <p>Know and understand how to work safely when working in an engineering environment such as a school/college workshop when preparing, using and finishing materials, including by:</p> | <ul style="list-style-type: none"> • carrying out a risk assessment • identifying risks • identifying appropriate control measures |
| <p>Understand how engineering processes can be used for:</p> | <p>material removal – sawing, filing, milling, turning • shaping and manipulation – milling, turning, filing, bending, compressing, forming • joining and assembly – adhesives, welding, screws nuts and bolts etc • heat and chemical treatment – annealing, normalising, tempering and hardening; etching, electroplating, galvanising and anodizing.</p> |
| <p>Know, understand and be able to use calculations and mathematical techniques that are required to solve engineering problems, including:</p> | <p>Use of formulae • Ohms law • mechanical advantage • velocity ratio</p> <p>Areas and volumes, measuring using datums, estimation (of cost/materials), average , scale (enlargement and reduction)</p> <p>Units of measurement including: • metric (e.g. metres, millimetres) • imperial (e.g. feet, inches) • time conversion (hours, minutes & seconds)</p> <p>Graphs – histogram, bar charts, line graph, pie charts.</p> |
| <p>Learners should understand the following technical details in an engineering drawing:</p> | <p>Section views • construction lines • centre lines • hidden details • standard conventions • datums.</p> <p>Interpret and produce a range of engineering drawings including: • third-angle orthographic projections • isometric views • sectional views that include technical details such as: • dimension lines sectional lines</p> |
| <p>Notes: Answer every question and in as much detail as possible.</p> | |

Computer Science

EQUIPMENT REQUIRED

- Pen
- Ruler
- Calculator

Date of Examination: **Friday 8th December** Length of paper: **1hr 30 mins**

GCSE Pod Playlist Title:

Computer Science Revision Nov/Dec 2023 Paper 1

Computer Science Revision Nov/Dec 2023 Paper 2

| Topic | Details | Powerpoint number |
|---------|---|---|
| Paper 1 | The CPU Data/storage capacity Secondary Storage RAM and ROM Virtual Memory Converting between denary and binary Converting between binary and hexadecimal Binary Shifts Representing characters and character sets Representing images including file size Network Topologies and their advantages/disadvantages Network security eg: Malware Utility Software Encryption Email Protocols | 1, 2 12 10 7 8 15 17 18 19 20 28 35/36 41 30 33 |
| Paper 2 | Logic Gates and Boolean Logic Writing and editing a program using pseudocode Use of while loops in a program Different types of loops Writing an SQL Statement Features of High Level Languages Compiler v Interpreter Bubble Sorts Maintainability of a program Identifying Sequence, Selection, Iteration in code Data Types Use of 2D Arrays Use of trace table Suitable test data | 81/82/83 54 63 63 70 85 86 59 76 63 66 71 56 77 |

Notes ; Use the powerpoints that are stored in Teams, Files, Class Materials alongside your notes and the revision books.

SEARCH FOR 'Mr G Computer Science' on YouTube for excellent videos

Business

EQUIPMENT REQUIRED

- Black Pen
- Pencil
- Ruler
- Calculator

GCSE Pod Playlist Title: **Theme 1 Investigating Small Business**

Date of Examination: **Friday 8th December 2023**

Length of paper: **1h 45 mins**

| Topic | Details | Revision guide reference |
|--|---|---|
| 1.1 Enterprise and entrepreneurship | 1.1.1 Dynamic nature of business 1.1.2 Risk and reward 1.1.3 Role of business enterprise | Revision guide: p6-7, p13-14 Exam practice workbook: p5-6 Blue revision cards GCSEPod Playlist |
| 1.2 Spotting a business opportunity | 1.2.1 Customer needs 1.2.2 Market research 1.2.3 Market segmentation 1.2.4 Competitive environment | Revision guide: p8-14 Exam practice workbook: p7-12 Blue revision cards GCSEPod Playlist |
| 1.3 Putting a business idea into practice | 1.3.1 Business aims and objectives 1.3.2 Business revenues, costs, and profits 1.3.3 Cash and cash-flow 1.3.4 Sources of finance | Revision guide: P25-32 Exam practice workbook: p13-21 Green revision cards GCSEPod Playlist |
| 1.4 Making the business effective | 1.4.1 Options for start-up and small businesses 1.4.2 Business location 1.4.3 Marketing mix 1.4.4 Business plans | Revision guide: p33-44 Exam practice workbook: p22-28 Purple revision cards GCSEPod Playlist |
| 1.5 Understanding external influences on business | 1.5.1 Business stakeholders 1.5.2 Technology and business 1.5.3 Legislation and business 1.5.4 The economy and business 1.5.5 External influences | Revision guide: p45-52 Exam practice workbook: p29-37 Orange revision cards GCSEPod Playlist |

Notes - Formulas to learn:

Total costs, revenue, break even, margin of safety, net cash-flow, opening and closing balances

Hospitality and Catering

EQUIPMENT REQUIRED

- Pen

Date of Examination: **Monday 4th December 2023**

Length of paper: **1 hr**

| Topic | Details | Revision guide reference |
|--|--|--|
| Food Safety in Hospitality and catering 1.4.1 | <p>Food related causes of ill health. (Causes of food poisoning)</p> <ul style="list-style-type: none"> • allergies • bacteria • intolerances <p>Types of Food poisoning:</p> <ul style="list-style-type: none"> • bacillus cereus • clostridium perfringens • salmonella • campylobacter • ecoli • staphylococcus aureus • listeria <p>Food allergies:</p> <ul style="list-style-type: none"> • cereals (gluten) • eggs • lupin • sesame seeds • fish • molluscs • crustaceans • fruit and vegetables • nuts • soya • dairy products • peanuts • wheat <p>Food intolerance:</p> <ul style="list-style-type: none"> • gluten • lactose • aspartame • MSG. <p>Learners should be aware of the following:</p> <ul style="list-style-type: none"> • food labelling laws • food safety legislation • food hygiene | <p>Knowledge organisers are on Microsoft teams</p> <p>WJEC Level ½ Technical award in Hospitality and Catering (revision guide) By Anita Tull/ Alison Palmer</p> |
| 1.4.2 | <p>Symptoms and signs of food induced ill health.</p> <p>Visible:</p> <ul style="list-style-type: none"> • anaphylactic shock • chills • rash • bloating • facial swelling • vomiting/ diarrhoea • breathing difficulties • pale or sweating skin • weight loss <p>Non visible:</p> <ul style="list-style-type: none"> • constipation • weakness • feeling sick • wind/flatulence • stomachache | |
| 1.4.3 | <p>Preventatives control measures of food-induced ill health.</p> <ul style="list-style-type: none"> • cross contamination • correct temperature in: <ol style="list-style-type: none"> 1. delivery 2. Storage 3. Preparation 4. Service • physical contamination. | |
| 1.4.4 | <p>The environmental health officer</p> <ul style="list-style-type: none"> • collecting evidence including samples for testing, photographs, interviews • enforcing environmental health laws follow up complaints • follow up outbreaks of food poisoning | |

| | | |
|--|---|--|
| | <ul style="list-style-type: none"> • inspecting business for food safety standards • giving evidence in prosecutions • maintaining evidence • submitting reports | |
| 1.1.1 Hospitality and catering providers | <p><u>Learners should know and understand the two different types of hospitality and catering provision: commercial and noncommercial:</u></p> <p>Commercial (residential):</p> <ul style="list-style-type: none"> • B&B, guest houses and Airbnb • campsites and caravan parks • cruise ships • holiday parks, lodges, pods and cabins • hotels, motels and hostels. <p>Commercial (non- residential):</p> <ul style="list-style-type: none"> • airlines and long distance trains • cafés, tea rooms and coffee shops • fast food outlets • food provided by stadia, concert halls and tourist attractions • mobile food vans and street food trucks • pop up restaurants • public houses, bars • restaurants and bistros • takeaways • vending machines. <p>Non- commercial (residential):</p> <ul style="list-style-type: none"> •armed forces •prisons •hospitals, hospices & care homes •boarding schools, colleges, university residences <p>Non- commercial (non-residential):</p> <ul style="list-style-type: none"> • canteens in working establishments (subsidised) • charity run food providers • meals on wheels • schools, colleges and universities. | |
| 1.1.1 | <p><u>Learners should know and understand the following types of service in commercial and Non-commercial provision:</u></p> <p>Food service:</p> <ul style="list-style-type: none"> • table: plate, family style, silver, Gueridon, banquet • counter: cafeteria, buffet, fast food • personal: tray or trolley, vending, home delivery, takeaway | |
| 1.1.2 | <p><u>Learners should know and understand the following types of employment roles and responsibilities within the industry:</u></p> <ul style="list-style-type: none"> • front of house manager, head waiter, waiting staff, concierge, receptionist, maître d'hôtel, valets • housekeeping: chambermaid, cleaner, maintenance, caretaker • kitchen brigade: executive chef, sous chef, chef de partie commis chef, pastry chef, kitchen assistant, apprentice, kitchen porter/ plongeur • management: food and beverage, housekeeping, marketing | |

