



**Year 11 Mock Exams**

**January 2021**

**Exam Topics**

# Biology - Edexcel

The following topics will be examined in the 1 hour 45 min Biology mock exam:

- SB1 Key Concepts in Biology
- SB2 Cells and Control
- SB3 Genetics
- SB4 Natural Selection and Genetic Modification
- SB5 Health, Disease and the Development of Medicines
- SB6 Plant Structures and their Functions
- SB7 Animal Coordination, Control and Homeostasis

Specification booklets available online provide a checklist of the detailed content for each of the above.

# Chemistry - Edexcel

Students should be familiar with all the Chemistry topics studied since Year 9. With reference to the Edexcel specification documents this equates to topics 0 to 8 plus points 9.10 - 9.21.

# Classical Civilisation - OCR

For both papers, each topic has prescribed sources that pupils **must know** and be able to answer questions on.

Answers to the longer questions need to include both fact and argument / analysis – i.e. give your evidence and explain HOW it answers the question.

## **Myth and Religion Paper:**

All topics covered in myth and religion. Pupils should all have a copy of the specification which has more detail than below and notes on all these topics.

If pupils would like access to the textbook, they should see Mrs Dicks and photograph the relevant sections (however, the notes they have are more detailed and comprehensive).

- The gods (including Homeric Hymn to Demeter)
- The Universal Hero: Heracles and Hercules
- Religion and the City: sanctuaries, temples, prayer, sacrifice, priests
- Myth and the City: Foundation stories: Poseidon and Athena; Theseus; Aeneas; Romulus and Remus
- Festivals: City Dionysia (includes theatre and drama); Great Panathenaia; Lupercalia; Saturnalia
- Myths and Symbols of Power: Centauromachy; Amazonomachy; Prima Porta; Ara Pacis
- Death and Burial: Preparation of body; funerary procession; Burial (NB stelai for Greece); Festivals for the Dead
- Journeying to the Underworld: Persephone and Demeter (Homeric Hymn to Demeter); Orpheus and Eurydice

Pupils should be able to compare Greek and Roman aspects for each of topic.

### **Roman City Life Paper**

- Roman Housing: insula and domus
- Rome Home and Family: paterfamilias; patrons; clients; education; the dinner party (cena)
- Roman Society: Citizens; Senators; Equites; Slaves; Freedmen

## **Computer Science - OCR**

### **Paper 1**

- 1) Machine architecture, RAM, different types of memory
- 2) Operating systems, compression software, embedded systems
- 3) Network threats, encryption
- 4) Networking topology, hardware, wireless, virtual networks
- 5) Domain Name System
- 6) Environmental considerations

### **Paper 2**

- 1) Sound, images and data representation
- 2) Flowcharts, trace tables, translators
- 3) Logic errors and syntax errors, abstraction, defensive and robust design

- 4) Data representation, binary, hex, logic gates
- 5) Algorithms using functions, data types, casting, check digits, binary search, use of bubble sort. Algorithm using loops selection and sequence

Detailed information can be found on Teams and in the notes and documents provided by subject teachers.

## Design Technology – AQA

Time allowed: 2 hours

The paper is divided into three sections as follows:

- Section A Core technical principles
- Section B Specialist technical principles
- Section C Designing and making principles

The maximum mark for the paper is 100

**Equipment needed:**

- Black or blue pen, HB pencil, scientific calculator

**Areas to be covered in the examination:**

- Sensors
- Tolerances
- Forces
- Types of hard and softwood
- Types of polymer
- Types of ferrous, non-ferrous metals and alloys
- Modern manufacturing systems
- Types of lever and gears
- Modern materials
- Smart materials
- Renewable energy
- Crowdfunding and the Fair-trade organization
- Converting raw materials into stock forms
- Reinforcing physical and mechanical properties of materials
- Mass production processes

- Mechanical properties of materials
- Ethical decisions associated in the extraction of raw materials
- The Alessi design group, Arts and Crafts, The Bauhaus, Art Deco and Memphis
- User centred design and iterative design methods
- Safety, ergonomics and function in product design
- Advantages of CAD / CAM over traditional methods of product design, development and manufacture
- Quality control procedures used in manufacture

**Applied mathematical questions (approximately 15% of the overall DT paper):**

Although these will be included within the actual summer GCSE paper (as they were in the Year 10 summer mock exam) none are included here as the focus is purely DT.

## English Language - AQA

### AQA Language Paper 1 FULL PAPER

All pupils should refer to their Language revision booklets for preparation for this paper.

- For Q5 (Section B) all pupils should revise the advice offered by their teacher on what makes great creative writing. Refer to resources on Teams/Sharepoint.
- All pupils should refer to the advice document for how to approach each question in Section A (Questions 1-4). This document is on Sharepoint if you can't find it on your class Team.
- All pupils should practise timed papers over the Christmas break. You have been given access to past papers by your teacher – also check Teams/Sharepoint.
- All pupils should complete any specific revision work set by their teacher.

# English Literature - AQA

## GCSE Mock Exam: 'Macbeth' question (from AQA English Literature Paper 2) AND 'Power and Conflict' poetry comparison question (from AQA English Literature Paper 1)

Remember that AQA have rearranged the structure of the exam papers this year to make allowances for lockdown. The new exam structure is below:

AQA Literature Paper 1	AQA Literature Paper 2
'Power and Conflict' Poetry Comparison (tested in Mock exam)	Shakespeare's 'Macbeth' (tested in Mock exam)
'An Inspector Calls' – J. B. Priestley	Unseen Poetry

All pupils should re-read their Shakespeare play (*Macbeth*) – remember that any passage could appear on the paper.

- All pupils should complete any revision work set by their teacher.
- It may be helpful to watch a production of 'Macbeth' (DVD, YouTube, AmazonPrime etc).
- All pupils should be accessing Teams and/or the English Sharepoint area to revise Knowledge Organisers. Specimen papers will also be available on Sharepoint/your Team.
- If you would like to undertake timed practice over the holidays, you should give yourself 45 minutes.
- All pupils must learn key quotations (in groups according to characters and themes).
- All pupils should be prepared to discuss key social and historical issues which affect our interpretation of the language/character motivation/events in the plot.
- All pupils must revise technical terminology for language analysis.

All pupils should go back over their notes for all of the 'Power and Conflict' poetry.

- All pupils should complete any revision work set by their teacher.
- It may be helpful to watch Mr Bruff's videos on YouTube, and/or watch the relevant Massolit lectures.
- All pupils should be accessing Teams and/or the English Sharepoint area to revise Knowledge Organisers. Specimen papers will also be available on Sharepoint/your Team.
- If you would like to undertake timed practice over the holidays, you should give yourself 45 minutes.
- All pupils must learn key quotations (for each poem: target the opening, the ending, and key images/key lines).
- All pupils should be prepared to discuss key social/historical/biographical context, which affect our interpretation of the language/themes.
- All pupils must revise technical terminology for language analysis.

All pupils must practise making comparisons across two poems.

## Geography - Edexcel

**Paper 1** 1 ½ hours, 3 questions, spend 30 minutes on each

- Hazardous Earth: Climate, cyclone and tectonics
- Development
- Urbanisation

**Paper 2** 1 ½ hours, 3 questions, spend 30 minutes on each

- UK Physical
- UK Human
- Fieldwork

Detailed revision lists will be given to pupils closer to the time.

## History - Edexcel

1. Henry VIII and his ministers, 1509-40

## **Henry VIII and Wolsey**

- Henry VIII as England's new King
- The rise of Wolsey and his domestic policies
- Wolsey's foreign policy
- Wolsey and the annulment crisis
- Wolsey's fall from power

## **Henry VIII and Cromwell**

- Cromwell's rise to power
- The reasons for the fall of Ann Boleyn
- Henry's marriage to Jane Seymour
- Cromwell's reform of government
- The fall of Cromwell

## **The Reformation and its impact**

- The break with Rome
- Opposition to the Reformation
- The dissolution of the monasteries
- The Pilgrimage of Grace

## **2. Superpower relations and the Cold War, 1941-91**

### **Early tension between East and West**

- The development of the Cold War 1947-49
- The Cold War intensifies including arms race and Hungary

### **Cold War crises, 1958-70**

- Berlin Wall
- Cuba Crisis
- Prague Spring

### **The End of the Cold War, 1970-91**

- Attempts to reduce tension between East and West
- Flashpoints
- The collapse of Soviet control of Eastern Europe

## **3. Weimar and Nazi Germany, 1918-39**

### **The Weimar Republic, 1918-29**

- The origins of the Republic
- Early challenges to the Weimar Republic
- The recovery of the Republic



## Changes in society

### **Hitler's rise to power, 1919-33**

The early development of the Nazi Party  
The Munich Putsch and the lean years  
Growth in support of the Nazis, 1929-32  
How Hitler became Chancellor

### **Nazi control and dictatorship, 1933-39**

The creation of a dictatorship, 1933-34  
The police state  
Controlling and influencing attitudes  
Opposition, resistance and conformity

### **Life in Nazi Germany, 1933-39**

Nazi policies towards women  
Nazi policies towards the young  
Employment and living standards  
Persecution of minorities

## Latin - OCR

### 1. Language Paper

- All grammar has now been learned; revision guides and PowerPoints are on the VLE

### 2. Literature Paper

- Poetry (Virgil): all text covered up to the point of the mocks
- Pupils should know how to translate and comment on the Latin text

## Maths - AQA

### GCSE Maths (8300) – AQA

There will be three full GCSE mock papers. All students will have completed

the full GCSE course, with the exception of vectors.

There is a full GCSE specification available in Teams under 'Resources – Year 11' and in the Specifications and Checklists folder. This can also be found on the web-site:

<https://www.aqa.org.uk/subjects/mathematics/gcse/mathematics-8300/specification-at-a-glance>

The best way to get good at Maths is to do Maths! Make use of class notes, revision guides and revision cards. There is a large selection of practice papers and mark schemes available in Teams (under resources) and on Cloudbox. Start with Specimen practice papers, past exam papers and Zig Zag practice papers. The Churchill practice papers tend to be more challenging.

## **Level 2 Further Maths (8365) – AQA**

(Year 11 Maths set 1 only)

There will be a Level 2 Further Maths Mock in January for all Year 11 Maths Set 1 students – there will also be a full mock paper given at the beginning of March.

The specification can be found on the web-site:

<https://www.aqa.org.uk/subjects/mathematics/aqa-certificate/further-mathematics-8365/specification-at-a-glance>

There are copies of the 8365 specification (and new content), as well as copies of Level 2 Further Maths past exam papers and sample papers in folders on both Year 11 set 1 Class Teams, and also in the 'Resources – Year 11' folder.

# MFL – AQA

## (Spanish / French / German)

Topics to revise:

### **Theme One - Identity and culture**

- Relationships with family and friends
- Marriage and partnership

- Social media
- Mobile technology
- Music, cinema and TV
- Food and eating out
- Sport
- Customs of Spain/France/Germany
- Festivals in Spain /France/Germany

## Theme Two - Local, national, international and global areas of interest

- Home
- Where I live
- Charity and voluntary work
- Healthy and unhealthy living
- Environment
- Poverty and homelessness
- Holidays and travel
- Regions of the country

## Theme Three - Current and Future study and employment

- School and subjects
  - Life at school
  - University or work
  - Choice of career
1. Pupils are doing three exams (reading, writing, listening) in which **all the three major themes** we study at GCSE will appear. Therefore, they must revise vocabulary from their booklets as well as practise their listening and reading skills using websites such as quizlet and languages online, which they all have access to.
  2. In class pupils are covering the major grammar points but they should also go over this again.

The MFL department advise all students to familiarise themselves with all the information on the VLE about the GCSE paper and use the past papers as an integral part of their revision. Furthermore, they will find a comprehensive GCSE vocabulary lists on the VLE. Students are also given booklets with grammar, vocabulary and the specification in them.

# Music – Edexcel

Musical elements revision of the 8 set works:

- Purcell – Music for a While
- Bach – Brandenburg Concerto No. 5 in D (3rd movement)
- Beethoven – Pathétique Sonata (1st movement)
- J. Williams – Star Wars/Rebel Blockade Runner
- Queen – Killer Queen
- Wicked – Defying Gravity
- Esperanza Spalding – Samba em Preludio
- Afro Celt Sound System – Release

Additional preparation:

- 1) Listen to a wide variety of unfamiliar pieces to draw lists of meaningful comparisons and contrasts – useful for final 12-mark question (extended answer).
- 2) Be prepared for a short dictation question (filling in missing rhythms and pitches). Use [musictheory.net](http://musictheory.net) to practise chords, cadences etc.

# Physical Education – AQA

The Year 11 mock exam will cover all topics from the GCSE specification:

- 1. [Applied anatomy and physiology](#)
- 2. [Movement analysis](#)
- 3. [Physical training](#)
- 4. [Use of data](#)
- 5. [Sports psychology](#)
- 6. [Socio-cultural influences](#)
- 7. [Health, fitness and wellbeing](#)

# Physics – Edexcel

The following topics are examinable in the Year 11 mock Physics exam (see Edexcel GCSE 9-1 Specification 1PH0 for details):

- Topic 1 – Key concepts of physics
- Topic 2 – Motion and forces
- Topic 3 – Conservation of energy
- Topic 4 – Waves
- Topic 5 – Light and the electromagnetic spectrum
- Topic 6 – Radioactivity (6.1 – 6.35 only)
- Topic 7 – Astronomy
- Topic 8 – Energy - Forces doing work
- Topic 9 – Forces and their effects
- Topic 10 – Electricity and circuits
- Topic 11 – Static electricity
- Topic 12 – Magnetism and the motor effect
- Topic 13 – Electromagnetic induction
- Topic 14 – Particle model (14.1 – 14.11 only)
- Topic 15 – Forces and matter

# Religious Studies - AQA

The topics that will be assessed are:

- Christianity: beliefs and teachings
- Christianity: practices

- Sex and relationships

Each topic will have 24 marks available. This includes questions worth 1, 2, 4, 5 and 12 marks with an additional 2 SPaG marks available. You will have 1 hour 20 minutes to complete the exam.

There are revision resources available for these topics on Teams. Key terms can be rehearsed using the Quizlets under Mrs Khan's account. You also have your class notes that will be valuable to revise from.