

HELSEBY

High School



Achieving Success
Valuing Others

Year 11
Quick Guide
Exam Preparation
for PPE 1
November 2023

Computer Science

Topics students need to revise include:

- 3.1 Fundamentals of algorithms
- 3.2 Programming
- 3.3 Fundamentals of data representation
- 3.4 Computer systems
- 3.5 Fundamentals of computer networks

Revision Book/Cards

- Revision book - CGP GCSE AQA Computer Science Complete Revision Guide
- Pack of revision cards

Other revision resources

- Class work booklets
- Revision mats
- YouTube - Search AQA GCSE Computer Science - Craig 'n' Dave resources and MrBrownncs

Design & Technology

The 2 hour NEA slot will encompass a session working on their ongoing and live NEA task, particularly sections A&B: Exploring design opportunities; design brief; specification.

- The 1 hour written paper assessment will cover the theme of 'new and emerging technologies', more specifically, the following topics:
 - Industry and Enterprise
 - Sustainability
 - People, Culture and Society
 - Production Techniques and Systems
 - Informing Design Decisions
- Revision websites for the written paper assessment:
 - www.technologystudent.com
 - <https://www.bbc.co.uk/bitesize/examspecs/zby2bdm>
 - <https://filestore.aqa.org.uk/resources/design-and-technology/specifications/AQA-8552-SP-2017.PDF>
- Revision text books for the written paper assessment:
 - AQA GCSE (9-1) Design and Technology. Author: Michael Ross. ISBN-13: 9781910523100 Clear revise AQA GCSE 8552 – Illustrated revision and practice. Author L Sheppard. ISBN-13: 978-1-910523-24-7
 - <https://www.pgonline.co.uk/resources/design-and-technology/gcse-aqa/gcse-design-and-technology-textbook-8552/>
 - <https://www.pgonline.co.uk/resources/design-and-technology/gcse-aqa/clearrevise-8552/>

English Language

English Language Paper 2 Writer's Viewpoints and Perspectives

Section A:

4 questions based on two unseen non-fiction texts. The questions will require you to retrieve information and identify and comment on the impact of the writer's choices and methods to demonstrate your understanding. You will be required to compare the texts and demonstrate your ability to synthesise information from both sources.

Section B:

You will be asked to write a piece of transactional/discursive writing. This will take the form of one of the following: letter, article, speech, essay or leaflet.

In this section you will be assessed on your writing skills.

There is advice on how to approach the questions and practice papers in the Year 11 GCSE Support area on Teams.

There are a number of revision guides available for GCSE English Language. If purchasing one make sure it is for the AQA syllabus.

English Literature

English Literature Paper 1 Shakespeare and 19th Century

Section A:

You will be asked an extract question on 'Macbeth'
The extract can be taken from any part of the text.

Section B:

You will be asked an extract question on 'A Christmas Carol'
The extract can be taken from any part of the text.

There is advice on how to approach the questions and practice papers in the Year 11 GCSE Support area on Teams.

There are a number of revision guides available for each text. If purchasing one make sure it is for the AQA syllabus.

Business

Edexcel GCSE Business Paper 1

The forthcoming PPE for GCSE Business will be based on Unit 1 (Year 10 work) only and will be in the format of a past paper, similar to the end of unit tests that students are used to. Students will have been given a personal learning checklist and revision materials by their class teacher. In our lessons, we will be revising Unit 1 for 2 weeks before the PPE.

Students should also use their revision guide (pages 1-41) and blue knowledge book (pages 4-25) which they have been given to use at home. GCSE Bitesize also has Edexcel Business resources including focused revision with online tests for each topic. <https://www.bbc.co.uk/bitesize/examspecs/z98snbk>

Expressive Arts

Art & Photography – NO PPE

Drama

You will need to revise the set text 1984 including the context of the script, the characters and how you would play them, and how you would stage the play including set, costume lights and sound.

Resources:

- Edexcel GCSE (9-1) Drama (Edexcel GCSE 9-1 Drama 2016) Paperback – 20 July 2016
- 1984 by George Orwell, Icke and Macmillan

Heathers the Musical to watch- Notes you have prepared

Your teacher will provide you with an interactive booklet of notes and activities to help you revise 1984. You will also be given a range of practice papers to help you study. You will have access to the 1984 text but purchasing your own would be useful. You should research google images of past productions of the Icke and Macmillan version of the play ONLY as this will help you understand how to stage the play.

You will also need to prepare notes based off the live theatre you have seen showing 3 key moments in the play. Including lights, sound, costume, acting etc.

Music

The music PPE will be in two sections.

For Section A, you will be played excerpts of music to which you must answer questions based on elements of music. You should revise your keywords in relation to the correct element of music.

For example - Polyphonic/monophonic/ homophonic are all textures.

It's important that you are aware of the meaning and the element it relates to. You will be played excerpts of music to which you must answer questions based on elements of music.

Section B will include some 2 mark question as well as an 8 mark question on the set works you have studied so far. This will be the Overture from Little Shop of Horrors, as well as Mushnik and Son. Please revise the information in your books in relation to the element of music. Your questions will always reference an element of music, so it

is important that you know which element of music the feature relates to. For example - the prologue of the Overture begins in Eb but modulates to G# which creates a surge of energy at the beginning of the main song. - This is an example of how tonality is used within the Overture.

Please collect your books from Music. I recommend using flash cards specific to each set work and element of music to help memorise the key features.

Performing Arts

Students will need to have their final performance's rehearsed and costumed. Students have been preparing this in lesson time and they will complete their performances in the day.

The drama studio is free break and lunch time for extra rehearsals and please book in for 1 on 1 sessions with Mrs Ratcliffe

Food Preparation and Nutrition

Students cannot "revise" for this NEA1 session as such but in advance it is STRONGLY recommended they watch 5 particular videos which will help them prepare and give them a better understanding about researching, planning, conducting and analysing a food science investigation. The videos can be found online at <https://www.ifst.org/lovefoodlovescience/resources>

The 5 particular videos to watch are entitled:

1. Food investigation: how to begin a food investigation
 2. Food investigation: conducting experiments
 3. Food investigation: conducting experiments II
 4. Food investigation: data and observations
- Food investigation: analyse results and present findings

Health and Social Care

- The 2 hour NEA2 slot will encompass a session working on their ongoing and live NEA2 task relating to 'Supporting Individuals Through Life Events' (RO33). They will be specifically working on task 2B (sources of support available).

Students cannot "revise" for this NEA2 session as such but do have access to Mrs Gilbert's support and guidance resources provided on the shared area which they are encouraged to use to help support their understanding of the task, both in preparation for and during the assessment.

Geography

Students will need to revise all knowledge content for the following units:

- Landscapes of the UK
- People of the UK
- UK environmental Challenges
- Ecosystems of the planet

The revision guide is: Blackshaw, R., Payne, J., Ross, S. (2018) Geography A OCR GCSE 9-1, Hodder Education . This can be purchased online and is available in all good bookshops.

All students have a login to the GCSEpod revision website (<https://www.gcsepod.com/>)

History

Students will answer two questions from a choice of three, based on our visit to Quarry Bank Mill.

We will set homework tasks in the weeks before in order to prepare students.

Maths

The Maths department will provide a list of revision topics on Show My Homework. Students should revise all topics covered since the start of year 9.

There will be one non-calculator and one calculator paper. Students should provide their own calculator for the PPE.

Students should be working through past papers provided by their class teachers in preparation for the exam.

Revision resources:

<https://www.drfrostmaths.com/>

<https://www.mathsgenie.co.uk/gcse.html>

<https://corbettmaths.com/contents/>

<https://hegartymaths.com/>

<https://www.onmaths.com/>

GCSE Further Maths

- Product rule for counting
- Surds – simplifying and rationalising
- Binomial expansion
- nth term of quadratic sequences
- Equation of straight line graphs inc parallel and perpendicular
- Length of a line segment
- Equation of a circle
- Equation of a tangent to a circle
- Factorising
- Algebraic fractions – simplifying, multiplying and dividing, addition and subtraction
- Algebraic fractions – solving equations
- Rearranging formula
- Algebraic division
- Factor theorem
- Solutions of linear and quadratic equations
- Solving linear simultaneous equations
- Solving linear equations with three unknowns
- Solving linear inequalities and representing graphically
- Solving quadratic inequalities and representing graphically
- Multiplying matrices

- Representing transformations with matrices including combined transformations
- Simplifying indices
- Solving equations with indices
- Differentiation of polynomials
- Equations of tangents and normal
- Turning points inc problem solving
- Curve sketching/interpreting

Use Sparx Maths to revise. Log on and then click on independent learning on the left hand menu. Change "Your curriculum" to AQA Level 2 Further Maths and then you can search for any of the above topics.

Media

For GCSE Media Studies, students will sit Section A of a Component 2 exam paper where they will be assessed on their knowledge of Crime TV. They will need to revise Crime TV genre conventions generally, and more specifically series one episode one of *Luther*, and series one episode one of *The Sweeney* 'The Ringer', focussing upon narrative and character representations, as well as the social historical context of each episode.

The Luther episode is available to watch on BBC iPlayer and The Sweeney episode is available on the Daily Motion website <https://www.dailymotion.com/video/x3o9umx>.

Students should also revise Media Studies terminology and theory, as they will need to use and apply this in their written responses.

The best and most relevant revision resources are all available for free online in the Digital Resources section of the Eduqas Media GCSE website, links below:

<https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rIid=1054>

<https://resource.download.wjec.co.uk/vtc/2016-17/qft/eduqas/mediastudies/GCSE%20media%20studies%20Glossary.pdf>

Students should also make use of their Zig-Zag e-revision accounts which have a wide range of multiple choice quizzes and cloze exercises relating to crime TV and general media studies theory.

The Mrs Fisher *Luther* and *The Sweeney* revision videos are also most useful to watch, as are the Mrs Fisher and Media Insider media studies theory revision videos, available on Youtube.

MFL

French

Students will be given the writing, reading & listening components of a full GCSE exam for these PPEs.

The practice speaking exams will be in January (this will include role play, photo card & conversation). Students will be given an appointment for this w/b 8 January.

For the reading & listening exams, students should prepare by revising vocabulary (into English) on Quizlet (just search AQA French GCSE or Studio 4). They can also complete practice tasks on Active Learn or BBC Bitesize AQA French.

For the writing exam students will need to revise all of the topics covered so far and practise essay questions (40 & 90 word foundation and 90 & 150 word higher) on topics of:

Family & friends
 Freetime (sport, media, technology)
 Healthy living
 Town & region
 Holidays
 School
 Future study, careers & other ambitions
 Social & global issues (higher only)

Students should have a clear checklist of the tenses and other grammatical structures that they plan to include in their answers. They would also be well advised to memorise a few good phrases for each topic.

The best & most reasonable revision guides are published by CGP, but make sure you get the AQA editions.

German

Students will be given the writing, reading & listening components of a full GCSE exam for the PPE2s.

The practice speaking exams will be in January (this will include role play, photo card & conversation). Students will be given an appointment for this w/b 8 January.

For the reading & listening exams, students should prepare by revising vocabulary (into English) on Quizlet (just search AQA German GCSE or Stimmt 4). They can also complete practice tasks on Active Learn or BBC Bitesize AQA German.

For the writing exam students will need to revise all of the topics covered so far and practise essay questions (40 & 90 word foundation and 90 & 150 word higher) on topics of:

Family & friends

Freetime (sport, media, technology)

Healthy living

Town & region

Holidays

School

Future study, careers & other ambitions

Social & global issues (higher only)

Students should have a clear checklist of the tenses and other grammatical structures that they plan to include in their answers. They would also be well advised to memorise a few good phrases for each topic.

The best & most reasonable revision guides are published by CGP, but make sure you get the AQA editions.

GCSE Physical Education

1. Applied anatomy and physiology

The structure and functions of the musculoskeletal system

- The functions of the skeleton
- Classification of bones
- Structure of the skeleton
- Classification of joints
- Movement possibilities at joints
- The role of ligaments and tendons
- Classification and characteristics of muscle types
- Location and role of the voluntary muscular system
- Antagonistic pairs of muscles
- Characteristics of fast and slow twitch muscle fibre types
- How the skeletal and muscular systems work together

The structure and functions of the cardiorespiratory system

- Functions of the cardiovascular system
- Structure of the cardiovascular system
- Structure of arteries, capillaries and veins
- The mechanisms required and the need for redistribution of blood flow
- Function and importance of red and white blood cells, platelets and plasma
- Composition of inhaled and exhaled air
- Vital capacity and tidal volume
- Location of main components of respiratory system
- Structure of alveoli
- How the cardiovascular and respiratory systems work together

Anaerobic and aerobic exercise

- Energy
- Energy sources

The short- and long-term effects of exercise

Short-term effects on:

- Lactate accumulation, muscle fatigue
- Heart rate, stroke volume and cardiac output
- Depth and rate of breathing
- How the respiratory and cardiovascular systems work together
- Long-term effects of exercise on the body systems
- Interpretation of graphical representations of heart rate, stroke volume and cardiac output values

2. Physical training

- The relationship between health and fitness
- The components of fitness
- The principles of training
- The long-term effects of exercise
- How to optimise training and prevent injury
- Effective use of warm up and cool down

Religious Education

Christian beliefs
Marriage and the family
Living the Christian life
Matters of life and death.

This paper will take 1 hour 45 minutes

The revision books for this are Pearson Revise Edexcel GCSE (9-1) Religious Studies, Christianity and Islam.

Students can use their folders and previous revision material to revise.
Their Class Slides are on Class Charts and students also have video revision links.
Drop-in sessions are every Thursday lunch and Friday break.

Science

- Our exam board is AQA Separate sciences or AQA combined Science Trilogy.

GCSE Biology Combined Science Trilogy

Your assessment will be on the first 4 large topics of the course. Content was taught in year 9 and 10. The following is an indication of the broad content that you could be tested on.

- Cell Biology: eg. Animal/Plant/Bacterial Cells, Cell differentiation, Microscopy, Stem cells, Chromosomes, Mitosis, Diffusion, Osmosis, Active transport
- Organisation: eg. Diffusion, Blood, Heart Structure, Gas Exchange, Blood Vessels, Digestion, Enzymes.
- Bioenergetics: eg. Aerobic Respiration, Anaerobic Respiration, Exercise, Metabolism, Photosynthesis
- Health and Disease: eg. Non-communicable disease and communicable disease, Human defence systems, Vaccination, Antibiotics, Painkillers, Discovery and development of drugs.

You will be provided with digital copies of knowledge organisers and past papers, and links to interactive resources such as Oak Academy and SENECA.

GCSE Separate Science: Biology

Your assessment will be on the first 4 large topics of the course. Content was taught in Years 9, 10 and 11. The following is an indication of the broad content that you could be tested on.

- Cell Biology: eg. Animal/Plant/Bacterial Cells, Cell differentiation, Microscopy, Stem cells, Chromosomes, Mitosis, Diffusion, Osmosis, Active transport
- Organisation: eg. Diffusion, Blood, Heart Structure, Gas Exchange, Blood Vessels, Digestion, Enzymes.
- Bioenergetics: eg. Aerobic Respiration, Anaerobic Respiration, Exercise, Metabolism, Photosynthesis
- Health and Disease: eg. Non-communicable disease and communicable disease, Human defence systems, Vaccination, Antibiotics, Painkillers, Monoclonal antibodies, Plant disease, Discovery and development of drugs.

You will be provided with digital copies of knowledge organisers and past papers, and links to interactive resources such as Oak Academy and SENECA.

GCSE Chemistry Combined Science Trilogy

Your assessment will be on the first 5 topics of the course; taught in year 9 and 10.

- Atomic Structure & the Periodic Table: element compounds and mixtures, chemical formulae & equations, atomic models, subatomic particles, isotopes & relative atomic mass, development of the periodic table, Group 1, 7 and 0.
- Structure, Bonding, & the Properties of Matter: chemical bonds – ionic, covalent & metallic; properties of ionic, covalent & metallic substances, polymers, nanoparticles.
- Quantitative Chemistry: relative formula mass, conservation of mass, reactions involving gases, moles, concentration.
- Chemical Reactions: reactions of metals, reactions of acids, electrolysis. Required Practicals: 'Preparing Soluble Salts'; 'Electrolysis of aqueous solutions'
- Energy Changes: exothermic & endothermic reactions, reaction profiles

Required Practical: 'Temperature changes'

Suggestions for preparation materials and support:

You will be provided with digital copies of knowledge organisers and past papers, and links to interactive resources such as Oak Academy and SENECA.

GCSE Separate Science: Chemistry

Your assessment will be on the first 5 topics of the course; taught in year 9 and 10.

- Atomic Structure & the Periodic Table: element compounds and mixtures, chemical formulae & equations, atomic models, subatomic particles, isotopes & relative atomic mass, development of the periodic table, Group 1, 7 and 0.
- Structure, Bonding, & the Properties of Matter: chemical bonds – ionic, covalent & metallic; properties of ionic, covalent & metallic substances, polymers, nanoparticles.
- Quantitative Chemistry: relative formula mass, conservation of mass, reactions involving gases, moles, concentration, percentage yield, atom economy, gas volumes, Required Practical: 'Titrations'.
- Chemical Reactions: reactions of metals, reactions of acids, electrolysis. Required Practicals: 'Preparing Soluble Salts'; 'Electrolysis of aqueous solutions'
- Energy Changes: exothermic & endothermic reactions, reaction profiles

Required Practical: 'Temperature changes'

Suggestions for preparation materials and support:

You will be provided with digital copies of knowledge organisers and past papers, and links to interactive resources such as Oak Academy and SENECA.

GCSE Combined Science: Physics

Your assessment will be on 4 large topics of the course. Content was taught in year 9 and 10. The following is an indication of the broad content that you could be tested on.

- Units P1, P2 and P3: Energy: eg. Kinetic / Gravitational energy calculations, Types of Energy, Energy Transfers and Efficiency, Work Done and Power, National and Global Energy Resources.
- Units P4 & P5: Electricity: eg. Circuit Symbols, Series and Parallel Circuits, Ohms Law, AC/DC and Plugs, The National Grid, Power, Current and Charge calculations, Electric Fields. Required Practical 15 - Resistance & 16 - I-V Characteristics.
- Unit P6: Particle Model of Matter: eg. Density, Changes of State, Internal Energy, Specific Heat Capacity, Specific Latent Heat, Particle Motion in Gases. Required Practical 14 - Specific Heat Capacity & Required Practical 17 - Density
- Unit P7: Radioactivity eg. Types of radioactivity, radioactive decay, uses of radioactivity and half-life.

You will be provided with digital copies of knowledge organisers and past papers, and links to interactive resources such as Oak Academy and SENECA.

GCSE Separate Science: Physics

Your assessment will be on 4 large topics of the course. Content was taught in year 9 and 10. The following is an indication of the broad content that you could be tested on.

- Units P1, P2 and P3: Energy: eg. Kinetic / Gravitational energy calculations, Types of Energy, Energy Transfers and Efficiency, Work Done and Power, National and Global Energy Resources. Required Practical 2 - Insulators.
- Units P4 & P5: Electricity: eg. Circuit Symbols, Series and Parallel Circuits, Ohms Law, AC/DC and Plugs, The National Grid, Power, Current and Charge calculations, Electric Fields. Required Practical 3 - Resistance & 4 - I-V Characteristics.
- Unit P6: Particle Model of Matter: eg. Density, Changes of State, Internal Energy, Specific Heat Capacity, Specific Latent Heat, Particle Motion in Gases. Required Practical 1 - Specific Heat Capacity & Required Practical 5 - Density
- Unit P7: Radioactivity eg. Types of radioactivity, radioactive decay, uses of radioactivity (including medical uses) half-life, fission and fusion.

Useful links for all science courses:

1. Specification for combined Science: <https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/specification-at-a-glance> (you will also find other revision material on the AQA website).
2. Specification for Separate sciences
 - Biology: <https://www.aqa.org.uk/subjects/science/gcse/biology-8461/specification-at-a-glance>
 - Chemistry: <https://www.aqa.org.uk/subjects/science/gcse/chemistry-8462/specification-at-a-glance>
 - Physics: <https://www.aqa.org.uk/subjects/science/gcse/physics-8463/specification-at-a-glance>
 -
3. BBC Bite size: <https://www.bbc.co.uk/bitesize/levels/z98jmp3> (please note that our exam board is AQA).
4. Cognito: <https://cognitoedu.org/home.html>
5. Free Science Lessons: <https://www.freesciencelessons.co.uk/>
6. Seneca Learning: <https://senecalearning.com/en-GB/>
7. Primrose Kitten: https://www.youtube.com/@Primrose_Kitten
8. Pass My Exams: <https://www.passmyexams.co.uk/>
9. Save My Exams: <https://www.savemyexams.com/>
10. Kuizical: <https://kuizical.com/>

Sociology

Topics the students need to revise:

- Research Methods
- Families
- Education

Revision Books:

My Revision Notes: AQA GCSE (9-1) Sociology by Ian Woodfield and Rosie Owens

ISBN-10 1510423230 - available from AMAZON

Revision resources:

- Revision materials from year 10 and extra materials from Year 11
- We will go through exam structure and style in lessons
- Revision resources will be put on Class charts as homework