

# HELSEBY

## Sixth Form



### **Year 13**

### **Subject Specific Revision**

### **Information for the**

### **PPE's**

### **November 2023**

## **Maths**

2 papers

**Pure** – 2 hours

**Statistics and Mechanics** – 1 hour 15 minutes

**Students should bring:** Pen, Pencil, Calculator, and Ruler.

### **Topics to be covered:**

All AS Topics

#### **Pure:**

Argument and Proof, Index Laws, Surds, Quadratic Functions, Lines and Circles, Simultaneous Equations, Inequalities, Differentiation, Rates of Change, Tangents and Normals, Turning Points, Integration, Area under a Curve, Trigonometry, Sine and Cosine Rules, Polynomials, Binomial Theorem, Algebraic Division, Vectors, Curve Sketching, Laws of Logarithms, Exponential Functions, Exponential Processes, Curve Fitting

#### **Mechanics:**

Forces and Newton's Laws, Units and Kinematics

#### **Stats:**

Probability, Binomial Distribution, Hypothesis Testing, Collecting, Representing and Interpreting Data, The Large Data Set

#### **Resources we will provide:**

Past exam papers already being completed and marked.

Kerboodle resources available.

Past exam questions as starters in lessons

**Revision resources:** ActiveLearn textbook

## **Further Maths**

2 papers 1 hour 40 minutes

**Students will need a calculator**

### **Topics to be covered:**

Paper 1 Core:

- Complex Numbers
- Argand Diagrams
- Roots of Polynomials
- Sums of series
- Proof by Induction
- Volumes of revolution
- Matrices
- Vectors

Paper 2 Stats and Mech:

#### **Stats:**

- Binomial Distribution
- Poisson distribution
- Discrete random variables
- Chi-squared tests
- Contingency tables
- Hypothesis testing

#### **Mech:**

- Work, energy, power
- Momentum and collisions
- impulses

**Resources we will provide:** Formula Booklet

**Revision resources:** Kerboodle, ActiveLearn, Completed assessments

## **English Language**

**Paper 1** Language Variation 2 hour 15 minutes

**Paper 2** Child Language 1 Hour

### **Topics to be covered:**

#### **Paper 1**

- How language varies depending upon mode, field, function and audience
- How language choices can create personal identities
- Language variation in English from c1550 (the beginning of Early Modern English) to the present day

#### **Paper 2**

- Spoken language acquisition and how children learn to write between the ages of 0 and 8
- The relationship between spoken language acquisition and literacy skills that children are taught, including the beginnings of reading
- Appropriate theories of children's language development

**Revision Resources:** Have been provided on ClassCharts and in lessons and also on RM Shared

## **English Literature**

1 paper 2 hours 30 minutes **Aspects of Tragedy** – Closed book exam

### **Topics to be covered:**

- "Othello"
- Poetry of Keats
- Death of a Salesman

### **Revision resources:**

- Classroom notes
- Essays and text annotations.
- Emagazine subscription

## **Media Studies**

1 x full Component One paper

### **Topics to be covered:**

All Component One texts must be revised\* as at least four of them will appear on the paper, just as in the real exam.

### **Topics to be covered:**

- Newspapers/news websites (The Times & The Mirror)
- Radio (Late Night Woman's Hour)
- Music videos ('Formation' & 'Riptide')
- Film (I, Daniel Blake & Black Panther)
- 

\*With the exception of advertising which was assessed in end of Y12 exam

**Resources provided:** 'Unseen' audio-visual and print texts.

**Revision resources:** On ClassCharts & the Eduqas website as well as your Zig-Zag e-revision account and the Mrs Fisher/Media Insider Youtube videos which examine some of our set texts and general A Level media studies theories.

## **Art & Photography**

Students will be assessed on their portfolio work in Art and Photography. During the PPE window students should continue to work on their individual portfolios. All students have been given individual targets and deadlines which they need to work towards. Students will not be having a formal PPE at this time whilst we await confirmation about what the exam board will expect.

## **Drama and Theatre**

Component 3; 2hour 30 minute written paper

**Students should bring:** Red book (given to you) Pen Comfortable clothing to move in

### **Topics to be covered:**

- Practitioner study
- Bertolt Brecht theatrical theories
- Lysistrata by Aristophanes
- That Face by Polly Stenham
- Scripted understanding
- Evaluating live theatre

### **Resources Provided:**

- Rehearsal space
- Scripted choices
- Set texts
- Teacher expertise
- Trips to see live theatre

### **Revision resources:**

- Study guides
- Resources on Ms Teams

**It is a requirement that rehearsals also take place out of scheduled lessons**

## **Biology**

1 x 2 hour paper.

**Students should bring:** Pen, Pencil, Ruler, and scientific Calculator

### **Topics to be covered:**

All AS Content

**Section 1** (Biological Molecules, Nucleic Acids)

**Section 2** (Cells, Membranes, Immune system)

**Section 3** (Exchange of substances, Mass transport)

**Section 4** (DNA, Protein Synthesis, Genetic diversity, Biodiversity)

General How Science Works skills.

### **Revision resources:**

Links to Past papers, YouTube revision sites. Revision notes Summary grids will all be shared via ClassCharts

## **Chemistry**

**Paper 1:** Inorganic & Physical Chemistry 90 marks / 1hour 45mins.

**Paper 2:** Organic & Physical Chemistry 90marks / 1hour 45mins.

**Students should bring:** Pen, pencil, ruler (with millimetre measurements), eraser, scientific calculator.

**Paper 1:** Inorganic & Physical Chemistry - Atomic Structure Amount of Substance Bonding Energetics Chemical Equilibria & Le Chatelier's Principle Equilibrium Constant Kc Oxidation, reduction & redox equations Periodicity & Group 2 Group 7, The Halogens Thermodynamics

**Paper 2:** Organic & Physical Chemistry - Amount of Substance Bonding Chemical Equilibria & Le Chatelier's Principle Equilibrium Constant Kc Introduction to organic chemistry Alkanes Halogenoalkanes Alkenes Alcohols Organic analysis Rate Equations

These topics are common to Paper 1 & Paper 2. Amount of Substance Bonding Chemical Equilibria & Le Chatelier's Principle Equilibrium Constant Kc

**Resources we will provide:** Practice papers and mark schemes. Guide on Preparation for Examinations

### **Revision resources:**

- Allery Tutor Chemistry Videos link to play list  
<https://www.youtube.com/channel/UCPtWS4fCi25YHw5SPGdPz0g>
- A level Chemistry revision notes. <https://www.docbrown.info/page13/page13.htm>
- A level Chemistry notes. <http://www.knockhardy.org.uk/sci.htm>
- A level Chemistry notes and activities <https://s-cool.co.uk/a-level/chemistry>
- A level Chemistry notes and activities. <http://www.chemguide.co.uk/>
- A level Chemistry notes and activities. <http://www.chembook.co.uk/>

## **Physics**

2 x 2 hour papers.

**Students should bring** Pen, Pencil, Rubber, Ruler and Calculator

**Paper 1** - 85 Marks split 60 short and long answer questions and 25 multiple choice

### **Topics to be covered:**

- Measurement and errors
- Particles and radiation
- Mechanics and materials
- Electricity
- Periodic motion

### **Paper 2 – Year 2 content and required practicals**

#### **Topics to be covered:**

- Simple Harmonic Motion
- Thermal physics
- Gravitational fields
- Gases
- Radioactivity
- All required practicals completed up to the exam

#### **Resources provided:**

- Equation sheet

**Revision Resources:** Information and resources available via ClassCharts

## **BTEC Applied Science**

1 x 2 hour paper Unit 3 Science investigation skills

**Students should bring:** Pen, pencil, ruler, rubber and calculator

### **Topics to be covered:**

- D Enzymes in action – D1 protein in structure, D2 Enzymes as biological catalysts in chemical reactions,
- D3 Factors that can affect enzyme activity
- E Diffusion of molecules – E1 Factors affecting the rate of diffusion, E2 Arrangement and movement of molecules
- G Energy content of fuels – G1 Fuels, G2 Hazards associated with fuels, G3 Units of energy

### **Revision Resources:**

Applied science text book chapter 3 – available on TEAMs

BTEC Applied Science Help [https://www.youtube.com/channel/UC11v-AL\\_4VFrVczVBzURmIg](https://www.youtube.com/channel/UC11v-AL_4VFrVczVBzURmIg)

Where you can find the following videos to help prepare:

Science investigation skills  
Skills investigation basics  
Skills planning an investigation  
Skills tables and graphs  
Skills graphs and correlations  
Writing a plan  
Uncertainty and errors  
Unit 3 Enzymes 3 videos  
Unit 3 Diffusion of molecules 3 videos  
Unit 3 Fuels 3 videos

## **Business Studies**

1 x 2 hour paper.

**Students should bring:** pen, pencil, ruler, rubber, and calculator.

### **Topics to be covered:**

- 3.3 (Marketing); 3.6 (HRM); 3.7 (Assessing the performance of the business – internal and external)

### **Resources provided:**

- Case Study, question paper and lined paper

### **Revision resources:**

- Red revision book pages p29-43; 81-99; 102-135
- Blue knowledge book pages 14-22; 36-42; 43-54

**Lunch time drop-in sessions with Mrs Turner in E14 Wednesday and Thursday from 12:40pm are covering PPE topics.**

## **BTEC Business**

Due to the nature of this vocational course, students have not currently covered enough of the theory to be assessed in any depth at this stage. During the PPE window, students should continue with the Assignment Brief for the unit they are currently undertaking.

## **Economics**

1 x 2 hour paper.

**Students should bring:** pen, pencil, ruler, rubber, and calculator

### **Topics to be covered:**

- Micro Economics.
- All Y12 work covered Sept to Dec 2022
- Y13 work covered since we returned in Sept 2023

### **Revision Resources:**

- Revision guide pages as follows: Y12 Micro p5-37; 76-88; 90-106. Y13 Work Market structures P38-56; 58-67. Labour markets P102-117

**Diagram revision session on Wednesday lunchtimes are covering micro graphs**

## **BTEC ICT**

Due to the nature of this vocational course, students have not currently covered enough of the theory to be assessed in any depth at this stage. During the PPE window, students should continue with the Assignment Brief for the unit they are currently undertaking

## **History**

1 paper 1 hour 30 minutes – full paper worth 50 marks

### **The Early Tudors 1485 - 1558**

#### **Revision Resources:**

All revision resources will be provided in lessons and on ClassCharts. However you can also purchase the OCR 'my revision notes' guide as shown in class

<https://www.hoddereducation.co.uk/subjects/history/products/16-18/my-revision-notes-ocr-as-a-level-history-england-1>

## **Politics**

1 x 2 hour paper worth 77 marks

### **Government and Politics of the UK**

#### **Revision Resources:**

Resources provided by class teacher.

- Textbook Revision guide – Can be purchased via Hodder Education  
<https://www.hoddereducation.co.uk/subjects/government-politics/products/16-18/my-revision-notes-aqa-a-level-politics-uk-politi>
- Revision organisers
- Past papers unit 2 found on AQA website: AQA | AS and A-level | Politics |
- Assessment resources <https://www.tutor2u.net/politics/reference/edexcel-a-level-politics-bumper-revision-quiz-for-component-2>  
(Designed for Edexcel but content is the same)

## **French**

Students will sit two written exams and complete one speaking exam of AS/A Level standard –

**Component 1** - Listening, reading and translation (50% of grade) - 2 hours 30 minutes

**Component 2** – Critical response to novel (20% of grade) – 2 hours

**Component 3** - Speaking Assessment 30% of grade) 20 minutes during lesson time

### **Topics to be covered:**

#### **Listening Reading and Translation**

- All Y12 language topics
- All Y12 grammar
- All Y13 language topics (so far)

#### **Film and novel**

- All of No et Moi essay plans ( characters and themes)and complex structures (subjunctives, passive and idioms) and short quotes/evidence to justify your points
- You will have two essays on the novel; one of themes and one on character(s)

#### **Speaking**

- Photo card task; asking and answering questions using AO4 in your responses
- All themes/topic areas covered throughout Year 12 and 13 (so far)

#### **Resources provided:**

- Exam papers & resource folder for reading
- MP3 players with relevant audio files uploaded
- Earphones (or you may bring your own)

#### **Revision Resources:**

- Topic skills practice on Kerboodle
- Grammar practice on Kerboodle
- Novel practice essays / essay plans
- Vocab lists and knowledge organisers
- Practice translations (see French A Level digital resources) on the Eduqas website
- Your AO4 facts to learn for photo cards

## **Geography**

1 paper 2 hours and 30 minutes

### **Topics to be covered:**

- Water and cycles unit
- Coastal systems and landscape unit
- Changing places unit

**Resources provided:** Time for independent revision (homework)

#### **Revision resources:**

- Classroom notes.
- A level textbook: AQA Geography, Skinner et al (2016).
- A level revision guides: ·
- My Revision Notes: AQA A-level Geography: Second Edition (2021),
- AQA Complete Revision & Practice, CGP A-Level Geography, (2021)
- AQA past papers <https://www.aqa.org.uk/subjects/geography/as-and-a-level/geography-7036/assessment-resources>



## **Psychology**

1 paper 2 hours

**Students should bring:** Pen Pencil Ruler Calculator

**Topics to be covered in the 2 hour paper:**

- Issues and Debates
- Relationships
- Attachment
- Research Methods

Students should already have their completed booklets/class notes for each topic, alongside previous assessments (with feedback) and some sample answers.

**Revision resources:**

Flash cards for each topic

Past paper questions

Essay plans

<https://www.tutor2u.net/psychology>

## **R.E.**

2 x 2 hour papers

**Paper 1 Philosophy**

**Topics to be covered:**

- Mind body and soul
- Problem of evil
- Ontological argument
- Religious experience

**Paper 2 Ethics** - Please revise the Ethics topics

Dedicate 40 minutes for each question

Each paper will have 4 questions and you must answer 3

**Revision resources:** Textbooks, A3 Sheets and Year 12 revision notes. We will go through exam structure in lesson

## **Sociology**

2 x 2 hour papers

**Topics to be covered:**

**Paper 1:**

- Education, Research methods, Methods in context

**Paper 2:**

- Family, Crime and Deviance,(only topics covered so far – gender, ethnicity, media & functionalism, strain theory and sub –cultural theory)

**Revision resources:**

- Students have been provided with flashcards and A3 summary sheets to use for revision
- Use feedback from previous assessments
- <https://www.tutor2u.net/sociology/latest>

## **Criminology**

No PPE - Students will complete a Controlled Assessment utilising draft documentation they have prepared during lessons.

## **Cambridge Technical Sport Studies**

2 papers

- 1 x one hour 30 minutes **Unit 1**
- 1 x 1 hour **Unit 3**

**Unit 1 Body Systems** (for those taking resits only)

### **Topics to be covered:**

- The Skeletal system
- The muscular system
- The cardiovascular system
- The Respiratory system
- The energy systems

**Unit 3 Sports Organisation and Development** (all students)

### **Topics to be covered:**

- How sport in the UK is organised
- Sports development
- Measuring the impact of sport development

### **Revision resources:**

- Folders
- Textbooks
- RMShared

## **Level 3 Cambridge Technical - Health and Social Care**

1 x 1 hour paper Unit 4 Anatomy & Physiology

### **Topics to be covered:**

- LO3 The digestive system

### **Resources provided:**

- Completed lesson work packs, independent study pack, exam pack

### **Revision Resources:**

- Revision book:

[https://www.amazon.co.uk/My-Revision-Notes-Cambridge-Technical/dp/1510442308/ref=sr\\_1\\_1?crid=1372W5K4TEJS4&keywords=hodder+my+revision+notes+l3+health+and+social&qid=1670929637&s=books&prefix=hodder+my+revison+notes+l3+health+and+social%2Cstripbooks%2C55&sr=1-1](https://www.amazon.co.uk/My-Revision-Notes-Cambridge-Technical/dp/1510442308/ref=sr_1_1?crid=1372W5K4TEJS4&keywords=hodder+my+revision+notes+l3+health+and+social&qid=1670929637&s=books&prefix=hodder+my+revison+notes+l3+health+and+social%2Cstripbooks%2C55&sr=1-1)

## **D&T – Product Design**

1 paper– 1hour 30 minutes

Written paper will cover both areas of the specification: Technical Principles AND Designing and Making Principles. Each of these areas encompass the following topics:

### **Topics to be covered:**

- Technical Principles covers the topics of: materials and their applications; performance characteristics of materials; enhancement of materials; forming, redistribution and addition processes; the use of finishes; modern industrial and commercial practice; digital design and manufacture; product design and development; health & safety; protecting designs and intellectual property; design for manufacture, maintenance, repair and disposal; feasibility studies; enterprise and marketing in the development of products; design communication.
- Designing and Making Principles covers the topics of: design methods and processes; design theory; how technology and cultural changes impact designer; critical analysis and evaluation; selecting tools, equipment and processes; accuracy in design and manufacture; responsible design; design for manufacture and project management; national and international standards in product design

**Students should bring:** usual writing and drawing instruments and scientific calculator

### **Revision Resources:**

The following text books are useful to support revision for the exam papers:

- <https://www.amazon.co.uk/AQA-AS-Level-Design-Technology/dp/1510414088>
- <https://www.amazon.co.uk/My-Revision-Notes-Technology-Product/dp/151043229>