

HELSEBY

Sixth Form



Year 12

Subject Specific Revision Information for the Assessments June 2024

Maths

2 Papers x 2 hours

- Paper 1 – Pure
- Paper 2 – Stats and Mech

Topics:

Paper 1 – Pure

- Algebraic expressions
- Quadratics
- Equations and inequalities
- Graphs and transformations
- Straight line graphs
- Circles
- Algebraic methods
- Binomial expansion
- Trigonometric ratios
- Trigonometric identities and equations
- Vectors
- Differentiation
- Integration
- Exponentials and Logarithms

Paper 2 – Stats and Mech

Stats:

- Data collection
- Measures of location and spread
- Correlation
- Probability
- Statistical distributions
- Hypothesis Testing

Mech:

- Modelling in mechanics
- Constant acceleration
- Forces and motion
- Variable Acceleration

Resources Provided: Formula Booklet

Equipment Required: Calculator

Revision resources: Active Learn, Completed Assessments

Further Maths

2 x 1 hour 40 minute papers

Topics:

Paper 1 – Core

- Complex numbers
- Argand Diagrams
- Roots of Polynomials
- Series
- Volumes of Revolution
- Matrices
- Proof of Induction
- Vectors

Paper 2 – Stats and Mech

Stats:

- Discrete random variables
- Poisson Distribution
- Hypothesis testing
- Chi-squared tests

Mech:

- Momentum and Impulse
- Work, Energy, Power
- Elastic collisions in one dimension

Resources provided: Formula Booklet

Equipment required: Calculator

Revision Resources: Active Learn, Completed Assessments

Media Studies

One exam paper: Component One, 2 hours 15 minutes (full paper, Sections A&B)

Topics:

- Newspapers: The Mirror & the Times set text covers & industry.
- Advertising: Tide, Superhumans & KOTV.
- Music videos: Riptide & Formation
- Film: I, Daniel Blake & Black Panther.

“Unseen” audio-visual and ‘unseen’ print texts (newspapers/advertising/music video theme) to analyse – so need to revise relevant theory and terminology for these topics.

Resources Provided: An ‘unseen’ audio-visual extract. 2 ‘unseen’ print pieces.

Equipment Required: Pens.

Revision resources:

- Eduqas fact sheets and notes from class.
- Eduqas Media A Level free interactive digital resources on the website.
- Zig-Zag e-revision packages for set texts; all students provided with individual log-ons.
- Mrs Fisher Youtube analysis videos for set texts and theorists.

English Language

2 x 1 hour 15 minute papers

Topics:

Paper 1

Section A Language Variation and Identity

Paper 2

Child Language Acquisition

Resources Provided: Exam booklets

Equipment Required: Writing equipment

Revision Resources: Materials on Class Charts and Teams Lesson resources and materials

English Literature

1 x 2½ hour paper Aspects of Tragedy

Topics:

- Othello
- Keats
- Death of a Salesman
- Tragedy

Resources provided: Exam booklet. Closed book examination.

Equipment required: Writing equipment

Revision resources: See Teams and resources from the lessons

Drama and Theatre

There will be no assessment in Drama and Theatre. Students are currently completing coursework

Art

Two hours spread over two timetabled lessons in their Art room

Topics: Students will present their project and portfolio work to date to the assessor

Equipment required: Bring all portfolio and sketch book work to the assessment lessons or have all material accessible on the IMac

Revision resources: IMac suit.

Photography

Two hours spread over two timetabled lessons in their Photography room

Topics: Students will present their project and portfolio work to date to the assessor

Equipment required: Bring all portfolio and sketch book work to the assessment lessons or have all material accessible on the IMac

Revision resources: IMac suit.

Physics

2 X 1½ hour papers 70 marks on each. AS paper 1 and AS paper 2.

Topics:

P1 – Matter and radiation

· P2 – Quarks and Leptons

· P3 – Quantum phenomena

· P4 – Waves

· P5 – Optics

· P6 – Forces in equilibrium

· P7 – On the move

· P8 – Newton's laws of motion

· P9 – Force and momentum

· P10 – Work, energy & power

· P11 – Materials

· P12 – Electric current

· P13 – DC circuits

· How Science works skills such as; analysing data, simple calculations and evaluating information.

· Required practical's on topics 1 – 13.

Paper 1: 70 marks of short and long answer questions split by topic

Paper 2: Topics 1 – 5 assessed

- Section A: 20 marks of short and long answer questions on practical skills and data analysis
- Section B: 20 marks of short and long answer questions from across all areas of AS content
- Section C: 30 Multiple choice questions

Resources Provided: Data Booklet

Equipment Required: Pen, Pencil, Calculator, Ruler

Revision Resources: All revision resources to be provided on Class Charts and Teams.

BTEC Applied Science

There will be no assessment in BTEC Applied Science. Students are currently completing coursework

Chemistry

Paper 1 Physical & Inorganic Chemistry 80 marks 1 x 1½ hour paper

Paper 2 Physical & Organic Chemistry 80 marks 1 x 1½ hour paper

Topics:

Paper 1:

- Atomic structure
- Amount of substance
- Bonding
- Energetics,
- Equilibrium & K_c
- Periodicity and Group 2

Paper 2:

- Atomic structure
- Amount of substance
- Bonding
- Kinetics
- Equilibrium & K_c
- Introduction to Organic Chemistry
- Alkanes
- Alkenes
- Halogenoalkanes
- Alcohols
- Organic Analysis

Resources Provided: Periodic Tables

Equipment Required: Black pen, pencil, ruler (with millimetre measurements), eraser, scientific calculator.

Revision Resources:

- AS level Chemistry Textbooks.
- Preparing for the examination – information.
- AS Chemistry Checklists
- AS Chemistry Revision Mats.
- Past paper questions.
- Websites.
- <https://www.youtube.com/channel/UCPtWS4fCi25YHw5SPGdPz0g>
- – Allery Tutor Chemistry Videos link to play list.
- <https://www.docbrown.info/page13/page13.htm>
 - A level Chemistry revision notes.
- <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/>
 - A level Chemistry notes and activities.

Biology

2 X 1½ hour papers

Topics:

All AS Content

- Section 1 – Biological Molecules
- Section 2 – Cells.
- Section 3 – Organisms exchange substances with their environment.
- Section 4 – Genetic Information, variation and relationships between organisms.

HSW skills will also be present throughout both papers.

Equipment Required: Pen, Pencil, Ruler, Rubber, Calculator

Revision Resources: Will be provided remotely and in class. Will include links to revision notes, past papers and learning grids

Business Studies

1 x 2 hour paper

Topics: 3.1 – 3.6

Equipment Required: Calculator, ruler, pen, pencil, rubber

Revision Resources:

- Blue knowledge book P1-42
- Red Revision Guide P1- 101
- Mindmaps, specifications and past papers given out in class
- Revision website – Tutor2
- <https://www.tutor2u.net/business/collections/aqa-a-level-business-study-resources-what-is-business>
- <https://www.tutor2u.net/business/collections/a-level-business-revision-quizzes>

Additional Information:

The examination will be a combination of multiple choice questions, short answer questions, case study questions and one essay

Economics

1 x 2 hour paper

Topics: 2.1 -2.3 – AS Macroeconomics

Equipment Required: Calculator, ruler, pen, pencil, rubber

Revision Resources:

- Red Revision Guide P122-182
- Mindmaps, specifications and past papers given out in class
- Revision website – Tutor2U
- The Economist magazine

Additional Information:

The examination will be a combination of multiple choice questions, one data response question and two essays

BTEC Business

There will be no assessment in BTEC Business. Students have recently taken an external exam and are currently completing coursework.

BTEC IT There will be no assessment in BTEC IT. Students will have sat an external exam.

Computer Science

2 X Papers

Paper 1: Programming completed in a lesson with MGR

Paper 2: Theory paper x 1½ hours

Topics:

Paper 1:

- 1.1 Programming
- 1.2 Programming and paradigms
- 2.1 Data Structures/abstract data types
- 3 Fundamentals of algorithms
- 3.4 Searching algorithms
- 3.5 Sorting algorithms

Paper 2:

- 4.5 Fundamentals of data representation
- 4.6 Fundamentals of computer systems
- 4.7 Fundamentals of computer organisation and architecture

Revision Resources:

Revision material provided during the lesson

Additional Information:

Craig n Dave link - https://www.youtube.com/playlist?list=PLCiOXwirraUDUYF_qDYcZV8Hce8dsE_Ho

French

1. Listening, reading & translation 2 hours
2. Literature exam – two essays 2 hours
3. Speaking – 30 minutes (appointments to be arranged with MFL Staff)

Topics:

- Revise all of the topics covered this year, including A04 facts for the speaking exam
- Practise grammar covered this year and learn some of the key rules
- Revise all the main characters and themes from 'No et Moi', specific vocabulary & short quotes from the book and some phrases to help sequence your ideas.

Resources Provided: Printed exam papers & photo card. Lined exercise paper.

Equipment Required: Pen & spare pen Highlighter pen

Revision resources:

- All Languages & grammar notes
- A04 Fact lists (a few key dates/examples/trends from French or French-speaking countries)
- Grammar practice booklets
- Interactive listening & reading tasks on Kerboodle
- Cheat sheets from 'No et Moi' on key themes & characters

Additional Information:

The two written papers will be scheduled during the exam fortnight. We will make individual appointments with students to sit a speaking exam.

German

1. Listening, reading & translation 2 hours
2. Literature exam – two essays 2 hours
3. Speaking – 30 minutes (appointments to be arranged with MFL Staff)

Topics:

- Revise all of the topics covered this year, including A04 facts for the speaking exam
- Practise grammar covered this year and learn some of the key rules
- Revise all the main characters and themes from "Goodbye Lenin) specific vocabulary & short quotes from the film and some phrases to help sequence your ideas

Resources Provided: Printed exam papers & photo card. Lined exercise paper.

Equipment Required: Pen & spare pen Highlighter pen

Revision resources:

- All languages & grammar notes
- A04 fact lists (a few key dates/examples/trends from German or German-speaking countries)
- Grammar practice booklets
- Interactive listening & reading tasks on Kerboodle
- Cheat sheets from " Goodbye Lenin" on key themes and characters

Additional Information:

The two written papers will be scheduled during the exam fortnight. We will make individual appointments with students to sit a speaking exam.

History

Paper 1 Russia 1894-1941

1 x 1 hour paper

Topics:

- The role of Nicholas II
- The revolutions of 1917
- Lenin and the Civil War

Resources Provided: Source booklet

Equipment Required: pen to write - pens to annotate (possibly highlighters)

Revision Resources:

- File notes
- Hodder Russia 1894-1941 OCR A Level Revision guide – available to purchase
ISBN: 9781471876004
- Additional resources provided by class teachers.

Additional Information: Choice of two questions, both including a 10 mark question and a 20 mark essay.

Paper 2 the Early Tudors 1558-1603

1 x 1½ Hour paper

Topics:

- Henry VII, Henry VIII, Henry VI

Equipment Required: Pen

Revision Resources:

- File notes, Students will be given weekly revision tasks to help prepare in the weeks leading up to the assessment

Additional Information: Q1. 30 Mark source question. **Q2.** 20 Mark essay question.

Politics

1 x 2 hour paper

Topics: The Government and Politics of the UK

- Nature and sources of the British Constitution
- Structure and role of Parliament
- The Prime Minister and Cabinet
- The Judiciary
- Devolution
- Democracy and Participation
- Elections and Referendum
- Political Parties
- Pressure Groups
- The European Union

Equipment required: Pen and highlighter for the extract question

Revision Resources: Students will be given weekly revision tasks to help prepare in the weeks leading up to the assessment

Additional information: **Q1-Q3** 3X9 mark questions. **Q4** 25 mark extracts question
Q5 and Q6 25 mark essay question form a choice of two.

Geography

1 x 2½ hour paper

Topics:

- Changing Places
- Water and Carbon cycles
- Coastal systems and landscapes

Equipment Required: Pen, pencil, ruler, calculator

Revision Resources: Guidance will be provided by individual class teachers. Students make use of class notes, textbooks and revision guides.

Psychology

1 x 2 hour paper

Topics:

- Social Influence
- Memory
- Attachment
- Psychopathology

Equipment Required: Pen

Revision Resources: Students should have all of their work booklets, revision cards and past assessments to help them to prepare for it. They can find extra support from the tutor2u website. Textbooks are available for students to borrow from D3.

R.E.

1 x 2 hour paper

Topics:

Philosophy Assessment:

- Religious Experience
- Arguments for the existence of God

Ethics Assessment:

- Utilitarianism
- Kant
- Natural Law
- Situation Ethics
- Business ethics and Euthanasia

Equipment Required: Pen

Revision Resources: Students should use class notes and revision material given in class to revise.

Sociology

2 x 1 hour papers

Topics:

Family:

- Theories/Social structure and change
- Changing patterns and diversity
- Gender roles & changes within the family
- Childhood
- Demography

Education:

- The role and functions of the education system (Theories)
- Gender and educational achievement and subject choice
- Social class and educational achievement
- Ethnicity and educational achievement

Equipment Required: Pen

Revision resources:

- Classwork notes/booklets
- Revision flash cards and knowledge organisers
- Tutor2u.co.uk

Criminology There will be no Assessment in Criminology Students will be sitting an external exam

Cambridge Technical Sport Studies

There will be no internal assessment in Sport Studies. Students will sit an external exam and are currently completing coursework as well as starting the Unit 3 content which will be examined in 2025.

D&T – Product Design

1 x 1½ hour paper – designing and making principles

Topics:

The performance characteristics of paper and board including:

- Performance
- Applications
- Recycling

The performance characteristics of Timbers including:

- Performance
- Applications
- Testing and Finishing

Performance characteristics of metals including:

- Stock Forms
- Performance and Properties
- Testing and finishing

Performance characteristics of polymers including:

- Characteristics
- Applications
- Stock Forms
- Elastomers
- Biodegradable Polymers

Performance characteristics of composites including:

- Smart Materials
- Composite Materials
- Modern Materials

Forming, redistribution and addition processes for a range of materials.

Different scales of production

Computer aided design (CAD)

Computer aided manufacture (CAM)

The design, development and manufacture of products to meet specification criteria

Health and safety procedures related to products and manufacturing

Communication and presentation techniques for conveying proposals and intentions

Equipment Required: Calculator, pen, pencil, ruler and eraser

Revision resources:

- Students may refer to their theory folder, classwork and resources provided from lessons.
- It is also recommended that pupils refer to the AQA text book that has been previously mentioned: <https://www.hoddereducation.com/subjects/art-design-technology/products/16-18/aqa-as-a-level-design-and-technology-product-design>
- The link following link to the course specification may also be helpful. <https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/specification-at-a-glance>

Level 3 Cambridge Technical - Health and Social Care extended certificate (single) group

Unit 4 Anatomy & Physiology (Mrs Gilbert)

LO1 Assessment - 1 x 1 hour paper

Topics:

- Composition of blood;
- 1.2 Functions of blood;
- 1.3 Structure of heart;
- 1.4 Function of heart;
- 1.5 Control and regulation of cardiac cycle;
- 1.6 Types, structure and functions of blood vessels;
- 1.7 Formation of tissue fluid and lymph;
- 1.8 Cardiovascular malfunctions – possible causes and effects on the individual, i.e. • hypertension • coronary heart disease (e.g. angina, heart attack);
- 1.9 Monitoring, treatment and care needs for the cardiovascular malfunctions listed to include impact on lifestyle changes, medication, blood pressure readings, ECG traces, coronary bypass as appropriate to the condition

Equipment Required: Pen

Revision resources: Lesson Work pack; Independent Study Pack; Exam Pack.

Unit 5 Infection Control (Mrs Eastwood) - this is an ongoing portfolio assessed unit so no written exam will take place during the assessment window.

Level 3 Cambridge Technical - Health & Social Care Diploma (double) group

These students have all work associated with the single group above plus, in addition...

- **Unit 15 Promoting Health & Wellbeing (Mrs Gilbert)** – this is an ongoing portfolio assessed unit so no written exam will take place during the assessment window.
- **Unit 13 Sexual Health, Reproduction and Early Stages Development** - this is an ongoing portfolio assessed unit so no written exam will take place during the assessment window.