

HELSBY

Sixth Form



Year 12

**Subject Specific Revision
Information for the
Assessments
January 2022**

Maths

1 X 1 hour paper

Topics:

- Argument and Proof
- Index Laws
- Surds
- Quadratic Functions
- Lines and circles
- Simultaneous equations
- Inequalities
- Sine, Cosine and Tangent
- Sine and Cosine Rule
- Vectors
- Differentiation
- Differentiation from First Principles

Resources Provided: Formula Booklet

Equipment Required: Calculator Pen, Pencil, Ruler

Revision resources: Kerboodle Maths Genie Corbett Maths Dr Frost

Additional Information: Drop in sessions Tuesday and Wednesday after school if wanted.

Further Maths

1 x 1 hour paper

Topics:

- Complex Numbers
- Sequences and series
- Volumes of Revolution

Resources provided: Formula Booklet

Equipment required: Calculator Pen, Pencil, Ruler etc.

Revision Resources: Kerboodle Maths Genie Corbett Maths Dr Frost

Additional Information: Kerboodle Maths Genie Corbett Maths Dr Frost

English Language

2 x 1 hour 15 minute assessments

Topics:

- Paper 1 Section A Language Variation and Identity
- Paper 2: Child Language Acquisition

Equipment Required: Writing equipment

Revision Resources: Materials on Show my Homework and Teams Lesson resources and materials

English Literature

2 x 1 hour assessments

Topics:

- 'Othello' Extract Question Paper 1 Section A
- Aspects of Tragedy in the poetry of Keats Paper 1 Section C

Resources provided: Exam booklet. Both of these assessments are closed book.

Equipment required: Writing equipment

Revision resources: See Teams and resources from the lessons

Media Studies

2 assessments

- 1 x 1 hour long assessment (Component One Section A question 1)
- 1 x 30 minute assessment (Component One Section A question 2)

Topics: Music videos and advertising.

Resources Provided: An audio-visual extract that (RMC) will play at the start of the exam

Equipment Required: Pen.

Revision resources:

- Zig-Zag e-revision package that all students have their own access to.
- Eduqas free digital resources for Music Videos and Advertising all on the exam board website.
- Notes from class.
- Mrs Fisher Youtube revision videos for music videos and advertising.

Additional Information:

12C will complete their assessments on Wednesday 19th January and Thursday 20th in RMC's lessons.

12D will complete their assessments on Tuesday 18th and Wed 19th January in RMC and MMS's lessons respectively

Drama and Theatre

3 x knowledge assessments 40 minutes each.

Topics: Lysistrata/Pinter/I think we are alone

Resources Provided: Copy of Lysistrata

Equipment required: Students should bring their red book

Revision resources: Revision Information on teams, Support booklets, red book the video of the "I think we are alone" production

Art & Photography

Students will be assessed on their portfolio work in Art and Photography "to date" 1 x 30 minutes. They will require their Portfolio and sketch book
During the Assessment 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.

Biology

2 X 45-50 minute papers

Topics:

- Chapter 1 (Biological Molecules)
- Chapter 2 (Nucleic acids)
- Chapter 3 (Cell structure)
- Chapter 4 (Transport across membrane)
- Both papers will have significant elements of How Science Works.

Equipment Required: Calculator, ruler, pencil

Revision Resources: Will be provided on SMHW or Teams

Chemistry

2 x 1 hour papers worth 50 marks each

Topics:

Paper 1

- Atomic Structure
- Amount of Substance – up to Ideal Gases

Paper 2

- Bonding
- Kinetics

Resources Provided: Periodic Tables

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

Revision Resources:

<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.

<http://www.knockhardy.org.uk/sci.htm> - A level Chemistry 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.

Physics

2 x 50 minute assessments

Topics:

Paper 1

- Topic 1: Working as a Physicist
- Topic 4: Materials

Paper 2

- Topic 1: Working as a Physicist
- Topic 2: Mechanics

Resources Provided: Data Booklet

Equipment Required: Pen, Pencil, Ruler, Calculator

Revision Resources:

All provided on SMH:

- Revision notes
- Practice questions and answers
- Past papers and mark schemes

BTEC Applied Science

Year 12 have an external exam for Unit 1 – Principles and Applications of Science in January and will be completing mock papers in class

Business Studies

There will be no assessment in A Level Business Studies at this time as students completed an assessment of all the topics covered so far at the end of the autumn term.

Economics

There will be no assessment in A Level Economics at this time as students completed an assessment of all the topics covered so far at the end of the autumn term.

BTEC Business

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

Computer Science

3 x 1 hour papers

Topics:

MDA

- 4.6 Fundamentals of computer systems
- 4.6.1 Hardware and software
- 4.6.2 Classification of programming languages
- 4.6.3 Types of program translator
- 4.6.4 Logic gates
- 4.6.5 Boolean algebra

KLI

- 4.5.1 Number Systems
- 4.5.2 Number bases
- 4.5.6 Images and Sound
- 4.2.1 Data Structures
- 4.2.2. Queues
- 4.2.3 Stacks
- 4.2.4 Graphs
- 4.2.5 Trees
- 4.3.3.1 RPN

JCO

- 4.1 Fundamentals of programming
- 4.1.1 Programming
- 4.1.1.1 Data types
- 4.1.1.2 Programming concepts
- 4.1.1.3 Arithmetic operations in a programming language
- 4.1.1.4 Relational operations in a programming language
- 4.1.1.6 Constants and variables in a programming language
- 4.1.1.7 String-handling operations in a programming language
- 4.1.1.8 Random number generation in a programming language
- 4.1.1.9 Exception handling
- 4.1.1.10 Subroutines (procedures/functions)
- 4.1.1.11 Parameters of subroutines
- 4.1.1.12 Returning a value/values from a subroutine
- 4.1.1.13 Local variables in subroutines
- 4.1.1.14 Global variables in a programming language
- 4.4 Theory of computation
- 4.4.1 Abstraction and automation
- 4.4.1.1 Problem-solving
- 4.4.1.2 Following and writing algorithms

Equipment Required: Pen, pencil, calculator

Revision Resources:

- Full set of notes has been provided.
- Craig n Dave videos
- https://www.youtube.com/c/craigndave/playlists?view=50&sort=dd&shelf_id=5
- Issac Computing textbook provided and the website
- Students own revision cards
- PG Presentations on the Shared Network

BTEC IT - Unit 2 Only JCO

Unit 2 Practical exam
1 hr 45 minutes (split over two lessons)

Topics:

Learning Aim A

- A1 Relational database management systems
- A2 Manipulating data structures and data in relational databases
- A3 Normalisation

Learning Aim B

- B1 Relational database design
- B2 Design documentation

Learning Aim C

- C1 Producing a database solution

Resources Provided: Computers MS ACCESS

Revision resources:

- Database notes in your folder
- Practice database tasks
- You Tube resources
- <https://www.youtube.com/watch?v=J02wQdMQ2qw>
- <https://www.youtube.com/watch?v=WEmQjH-9OhQ>
- <https://www.youtube.com/watch?v=urF03RPN2pQ>

French and German

One AS language paper spread over 3 lessons (reading, listening & translation) One-to-one speaking appointment for photo card discussion

Topics: All language topics & grammar topics covered so far

Equipment Required: Pen

Revision resources: Please use your folder to revise the topics and grammar covered so far. We will soon have access to a new digital package, for you to do extra reading & listening practice.

Additional Information: Y12 students will sit all four components of a past AS-Level paper. As this is the first formal assessment they have done, the tasks will be shared out across 4 lessons, to give them plenty of time and so that the teacher can explain and guide the students at the start. Students should revise vocabulary from the key language topics studied this year and also look over and learn the grammar points. They also need to learn some AO4 facts for the photo card discussion. If, as they revise, they find any areas of difficulty, then they should speak to one of their teachers.

Geography

3 x 20 minute papers

Topics:

- Exogenous/endogenous factors
- Outside versus insider perspectives on a sense of place
- Sediment cells
- Depositional features (beaches)
- Water cycle
- Cryospheric processes

Equipment Required: Pen, pencil, ruler, Calculator.

Revision Resources:

- Class notes
- A level textbook
- AQA revision guide
- AQA past papers

History

Paper 1: Subject: Russia 1894-1941

1 x 60 minute paper

Topics: Tsarist Russia up to 1914:

- What Russia was like in 1900 and how difficult it was to govern
- Personality of Nicholas II
- Opposition to the Tsar
- Economic problems Russia faced in 1900 & Witte's policies
- 1905 Revolution Causes
- 1905 Bloody Sunday & year of unrest
- Why the Tsar survived the revolution (October Manifesto etc.)
- Stolypin & land reform
- The work of the Dumas
- The power of the Tsar by 1914

Equipment Required: 2 x pens.

Revision Resources:

- Russia textbook
- Revision guide
- Guidance of question technique
- Summary Circles sheets for topics.
- Past paper questions to be found on the OCR website for unit Y219/01 AS and A Level - History A - H105, H505 (from 2015) – OCR
- <https://www.ocr.org.uk/qualifications/as-a-level-gce/history-a-h105-h505-from-2015/assessment/>

Additional Information: No choice element to the paper. All questions to be answered

Paper 2: Subject: Early Tudors 1485-1547 (Henry VII & VIII)

1 x 45 minute assessment comprising of 1 essay and 1 knowledge test

Topics: Henry VII and Henry VIII up to 1525

Equipment Required: 2 x pens.

Revision Resources: Will be discussed in class and put on SMH

Politics

1 x 45 minute paper

Topics:

- The Constitution
- Devolution
- Parliament
- Politics Parties

Equipment required: 2 x pens.

Revision Resources:

- Politics textbook
- Revision questions
- Guidance of question technique

Additional Information: No choice element to the paper. All questions to be answered

Psychology

2 x 30 minute assessments (one in a lesson with SIN, the other in a lesson with NBA)

Topics:

- Social Influence
- Approaches in Psychology

Equipment Required: Pen, pencil, ruler, calculator

Revision Resources:

- Classwork notes/booklets
- Past paper questions and mark schemes
- Revision cue cards,
- summary tables and mind maps

R.E.

2 x 40 minute Assessments

Topics:

Philosophy Assessment:

- Ancient Philosophical Influences,
- Teleological/Cosmological Argument

Ethics Assessment:

- Situation Ethics
- Natural Law

Equipment Required: Pen

Revision Resources: Class notes and textbooks

Additional information: You will have a choice of 3 questions and you answer 1

Sociology

2 x 45 minutes Assessments

Topics:

- Family- Topics covered so far (PJO)
- Education Theories, policy and gender (SIN)

Equipment Required: Pen

Revision resources:

- Class booklets,
- revision grids and summary sheets,
- Textbooks

Additional information: Students will be assessed on a mixture of 4, 6, 10 and 20 mark questions

Criminology

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

Cambridge Technical Sport Studies

Body Systems

1 x 1 hour assessment

Topics:

LO1: Understand the skeletal system in relation to exercise and physical activity

- The axial and appendicular skeletons
- The functions of the skeleton and the link to types of bone
- Classifications of joints
- The types of synovial joint
- Structures and functions of synovial joints
- Joint movements
- Structure and function of the vertebral column
- The impact of physical activity, training and lifestyle on the skeletal system

LO2: Understand the muscular system in relation to exercise and physical activity

- Main muscles acting at synovial joints
- Types of muscle function
- Types of muscle contraction
- Structure and function of muscle fibre types
- Link between mix of fibre types and performance
- The impact of physical activity, training and lifestyle on the muscular system

Equipment Required: Pen and pencil

Revision resources: Past paper questions and content PowerPoints available via teams and SMHW

Level 3 Cambridge Technical - Health and Social Care

Unit 2 LO2 assessment 1 x 1 hour

Topics:

Unit 2 Equality Diversity and Rights, LO2 - Understand the impact of discriminatory practice on individuals in health, social and child care environments.

Equipment Required: Pen

Revision Resources:

- Hodder 'My Revision Notes' textbook
- LO2 Lesson Pack
- LO2 Independent Study Pack Unit 2 Exam Pack

D&T – Product Design

2x 45 minutes assessments ("Paper 2" split across 2 sessions)

Topics:

Designing and making principles (which is worth 20% of total A level)

- Design methods and processes
- Design theory
- How technology and cultural changes can impact on the work of Designers
- Design processes
- Critical analysis and evaluation
- Knowledge & understanding of given FPT

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

Revision Resources: <https://filestore.aqa.org.uk/resources/design-and-technology/specifications/AQA-7552-SP-2017.PDF>