HELSBY High School

Achieving Success
Valuing Others

2024 - 2025

Year 10

Quick Guide

Preparation for Assessment 2

Art and Photography

Art
All coursework completed to date will be assessed. This includes any preparatory work, artists research, experiments and final pieces. Sketchbooks must be available for staff to assess the work accurately

Photography
All coursework completed to date will be assessed. This includes any preparatory work, artists research, experiments and final pieces. Al digital work must be available for staff to assess the work accurately

One to one tutorials will be conducted in the first week of the assessment week

Business

GCSE Business End of Year Exam Summer 2025

Exam Structure Overview

· Total Marks: 90

· Duration: 1 hour 30 minutes

· Sections:

- Section A: Short-answer and calculation questions
- Section B: Case study based on a business scenario
- Section C: Case study based on a business scenario

Types of Questions

· Multiple-choice questions

· Short-answer questions

· Data response and interpretation

· Calculation-based questions (e.g., profit, cash flow)

· Extended writing requiring analysis and evaluation

Key Topics

1.1 Enterprise and Entrepreneurship

· Roles and characteristics of entrepreneurs

· Risks and rewards in starting a business

· Ways to reduce business risk

1.2 Spotting a Business Opportunity

· Understanding customer needs

· Market research methods

· Market segmentation

· The competitive environment

1.3 Putting a Business Idea into Practice

· Business aims and objectives

· Revenue, costs, and profit calculations

· Cash flow and its importance

· Sources of business finance

1.4 Making the Business Effective

· Types of business ownership

· Business location factors

· The marketing mix (4Ps)

· Purpose and components of a business plan

1.5 Understanding External Influences on Business

· Stakeholders and their impact

· Technological influences on business

· Legislation affecting businesses

· Economic factors (e.g., interest rates, unemployment)

Revision Resources

· Edexcel GCSE Business Revision Guide Pages 1- 42 (students have been given a revision guide)

· Edexcel GCSE Business Knowledge Book Pages 1-42 (students have been given a knowledge book)

GCSE Bitesize Edexcel Business Revision Links ·

https://www.bbc.co.uk/bitesize/guides/zm4krj6/revision/1

https://www.bbc.co.uk/bitesize/guides/zjjtmfr/revision/1

https://www.bbc.co.uk/bitesize/guides/zkqp6v4/revision/1

https://www.bbc.co.uk/bitesize/guides/z6y9rj6/revision/1

https://www.bbc.co.uk/bitesize/guides/z7scbdm/revision/1

https://www.bbc.co.uk/bitesize/guides/zn3847h/revision/1

https://www.bbc.co.uk/bitesize/guides/z48x7nb/revision/1

https://www.bbc.co.uk/bitesize/guides/zjmfpg8/revision/1

https://www.bbc.co.uk/bitesize/guides/z4wtmfr/revision/1

https://www.bbc.co.uk/bitesize/guides/z7t3f4j/revision/1

https://www.bbc.co.uk/bitesize/guides/zrwtmfr/revision/1

https://www.bbc.co.uk/bitesize/guides/zmnr382/revision/1

https://www.bbc.co.uk/bitesize/guides/zdxynrd/revision/1

GCSE Computer Science

1 hour 30 min PPE (split between 2 lessons – 45 mins each (Lesson 2 & 3 on a Tuesday)

The PPE will include all the work covered this year, which includes the following topics. Page numbers refer to the revision guide.

3.2 Programming (Pages 23-27 for programming in Python – in class textbook)

- 3.2.1 Data types (page 8)
- 3.2.2 Programming concepts (pages 10, 12-15)
- 3.2.3 Arithmetic operations in a programming language (page 9)
- 3.2.4 Relational operations in a programming language (page 9)
- 3.2.6 Data structures (pages 18-20)
- 3.2.7 Input/output (page 23)

3.3 Fundamentals of data representation

- 3.3.1 Number bases (pages 38, 41)
- 3.3.2 Converting between number bases (pages 38, 41-42)
- 3.3.3 Units of Information (page 37)
- 3.3.4 Binary arithmetic (page 39-40)
- 3.3.5 Character encoding (page 43)
- 3.3.6 Representing images (page 44)
- 3.3.7 Representing sound (page 45)
- 3.3.8 Data compression (pages 46-48)

3.4 Computer systems

- 3.4.1 Hardware and software (page 50)
- 3.4.2 Boolean logic (pages 34-36)
- 3.4.3 Software classification (pages 57-59)
- 3.4.4 Classification of programming languages and translators (page 60)
- 3.4.5 Systems architecture (page 50-56)

3.5 Fundamentals of computer networks (pages 65-69, 72)

Craig'n'Dave videos may also help. Note these videos are for the full course so only select the relevant ones at this time.

https://craigndave.org/student-stream/aqa-gcse/

Design & Technology / /

Year 10 Design & Technology – Written Assessment
· Assessment duration: 1 x 45-minute written assessment
· Group 10B/Dt1 (Mrs Owen): Tuesday, June 10 – Period 2
· Group 10A/Dt1 (Mr Kelly): Tuesday, June 17 – Period 2
· Equipment required: Calculator, pen, pencil, ruler, and eraser
Possible topics include:
Timbers
· Types: hardwoods, softwoods, manufactured boards
· Properties and uses
· Basic techniques for shaping and joining
Polymers
· Thermoplastics and thermosetting plastics
· Common uses and properties
· How they're shaped and processed
Metals
· Ferrous, non-ferrous, and alloys
· Key properties (e.g. strength, rust resistance)
· Common shaping and joining methods
Stock Forms & Standard Components
· Materials in standard sizes (sheets, rods, etc.)
· Standard parts (e.g. screws, hinges)
Sustainability
· Using eco-friendly materials
· Reducing waste and energy use
· Social responsibility in design
· Social and Cultural Issues
· Designing for different users and cultures
· Inclusive and accessible design
CAD/CAM
Drawing and Communication Techniques
· Isometric and orthographic drawing
· Sketching and labelling ideas clearly

Suggested Revision Resources:
· Pupils should refer to their classwork and the resources provided during lessons including homework.
· BBC Bitesize (AQA GCSE Design & Technology): https://www.bbc.co.uk/bitesize/examspecs/zby2bdm
· Recommended revision guide (optional purchase): CGP GCSE Design & Technology – AQA Revision Guide
https://www.cgpbooks.co.uk/secondary-books/gcse/design-technology/d-t/tar42-new-gcse-design-technology-aqa

English

English Literature
Examination 1 'Macbeth' Extract Question 20 minutes (25 mins for those students with extra time)
Students will be given a short extract from 'Macbeth'. They will be asked a question which will focus on the characters in the extract and how the audience respond to the extract in question.
In preparation for this question students need to revise the characters and plot of 'Macbeth'. They should use their access to Seneca, Massolit and the revision materials given to them by their class teacher. This is in addition to the revision notes they have made whilst studying the text and any class notes, materials and their booklets.
Examination 2 'Macbeth' Whole Text Question 40 minutes (50 minutes for those students with extra time)
Students will be given a question that will focus on either a character(s) from the play or a key theme. They will be expected to explore the ideas linked to the question focus and comment on how Shakespeare has presented either the character or theme.
Example question*: Write about the relationship between Macbeth and Lady Macbeth and how it is presented at different points in the play.*
In preparation for this question students need to revise the characters, themes and plot of 'Macbeth'. They should use their access to Seneca, Massolit and the revision materials given to them by their class teacher. This is in addition to the revision notes they have made whilst studying the text and any class notes, materials and their booklets. Students will also be expected to provide evidence from the text in their response so should be able to remember key quotations to use within their answers.
*5 of this question's marks are allocated for accuracy in spelling, punctuation and the use of vocabulary and sentence structures.

English Language
Creative Prose Writing 45 minutes (60 minutes for those students with extra time)
The English Language Examination will test the students' ability to write a short story. Students will be able to choose a title from a choice of four. 16 of the available marks are awarded for vocabulary, sentence structure, spelling and punctuation. Students are expected to write between 450 and 600 words.
Students should prepare for this examination by practising their creative writing skills, revising their knowledge and understanding of a range of sentence structures, punctuation and paragraphing techniques. Students should also revise a range of linguistic and narrative techniques that they can employ in their own creative piece.
Students should aim to build a range of engaging, precise and sophisticated vocabulary to utilise in their response. Reading a range of short stories and flash fiction will develop their story writing ability and help to increase their vocabulary range.

Food Studies

Year 10 Food Preparation & Nutrition
· Students will undertake both a written and practical assessment linked to unit 4: protein rich foods.
· The practical assessment will be in response to a given brief. The brief will be provided to students in lesson, well in advance of the practical assessment which will take place on the following times:

- Mrs Eastwood's group – Tuesday 10th June periods 2&3
- Mrs Cross' group – Tuesday 17th June periods 2&3
    - The written assessment will cover the topics listed below that have been covered within Unit 4 Protein Rich Foods, and take place at the following times:
- Mrs Eastwood's group – Monday 16th June period 1
- Mrs Cross' group – Friday 13th June period 5

Topics covered on the written assessment:

- Protein – structure, amino acids (essential and non-essential), functions in body, biological value, effect of heat, denaturation, coagulation
- Meat – classification, origins, production, choice, storage, preparation, cooking methods, nutritional values in the diet (including biological value)
- Fish – classification, origins, production, choice, storage, preparation, cooking methods, nutritional values in the diet (including biological value)
- Eggs – origins, production, storage, preparation, nutritional values in the diet (including biological value), versatility and uses in cooking

- Alternative Protein Foods - classification, origins, production, choice, storage, preparation, cooking methods, nutritional values in the diet (including biological value)
- Vegetarian diets
- Meat restrictions relating to some religious groups

Pupils should use their class notes as the main source of revision. In addition they can use the SENECA learning platform along with accessing the digital version of our GCSE text book. Details for this are all posted on ClassCharts.

Geography

Pupils will be tested on the application of geographical skills.
The length of the paper is 45 minutes.
Pupils are asked to make use of past papers and revision guides to support their revision.

The following geographical skills will be tested:

With respect to **cartographic skill**s, learners should be able to:
· use and understand coordinates, scale and distance
· extract, interpret, analyse and evaluate information
· use and understand gradient, contour and spot height (on OS and other isoline maps)
· describe, interpret and analyse geo-spatial data presented in a GIS framework.
· use and understand a variety of maps including choropleth maps, isoline maps, desire line and flow lines.

With respect to **graphical skills**, learners should be able to:
· extract, interpret, analyse and evaluate information

With respect to **numerical** and **statistical skill**s, learners should be able to:
· calculate and understand percentages (increase and decrease) and percentiles
· understand and correctly use cumulative frequency

Health and Social Care

Year 10 Health & Social Care
· The students will have just started their second live, Non-Exam Assessment task (NEA) which will account for 30% of their actual final qualification grade. This will take place in every H&SC lesson both within the year 10 assessment fortnight and beyond. This is not a task that requires students to revise in preparation for, just ensure they attend every lesson and follow teacher guidance.

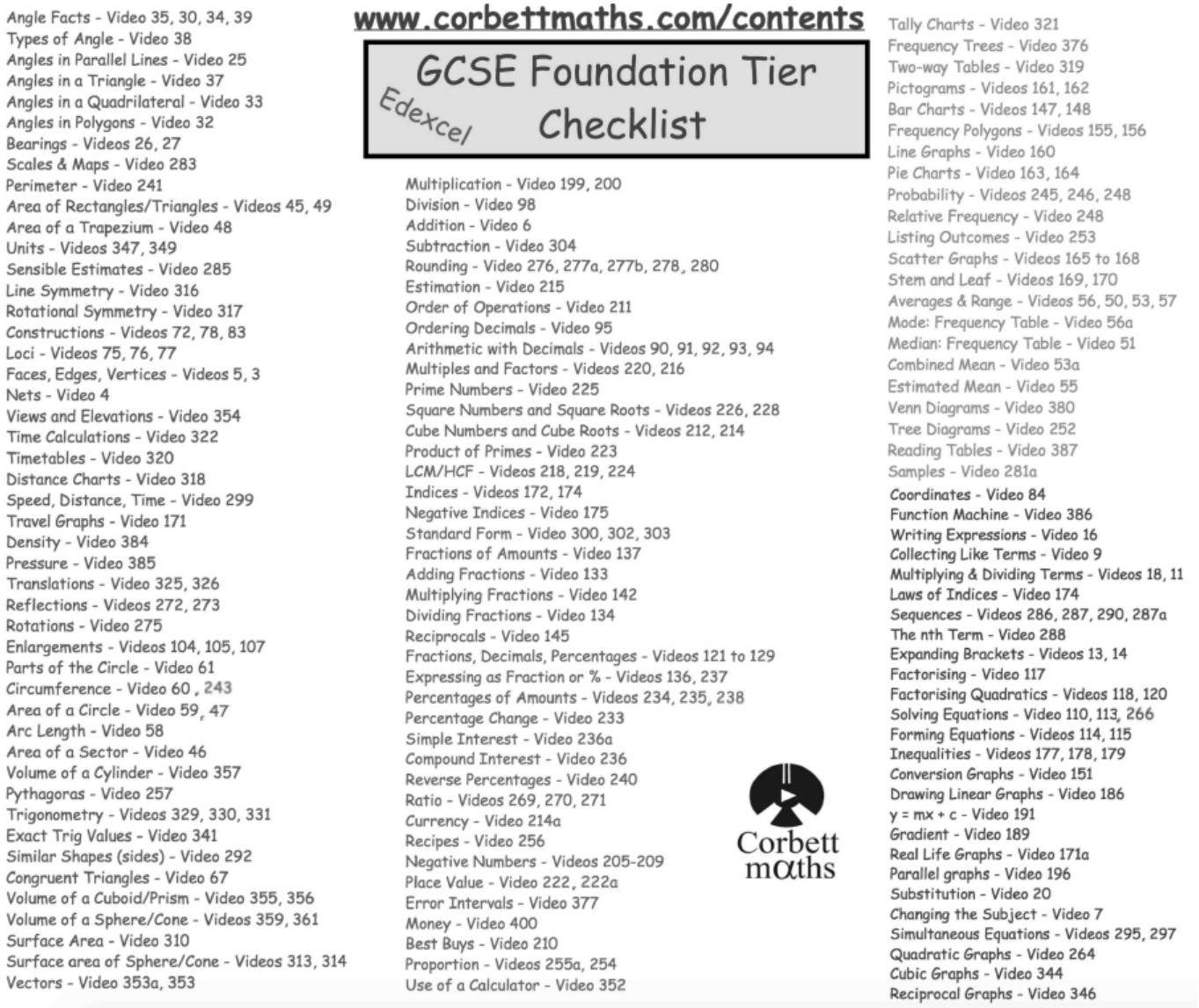
History (OCR History B – SHP)

Students will sit a 55 minute paper on Elizabethans 1580-1603.
This will be split across two lessons. The topics to be covered are:
· Daily Lives
· Merry England
· Wider World
· Government
· Catholics
The format of the assessment will be
Q6: a) 3 mark interpretation b) 5 mark 'investigation'
Q7 Comparison of two interpretations
Q8/9 Write one essay from a choice of two. 20 marks.
Students will follow a revision schedule to help them prepare for the assessment. This will include a specific task each week and will be followed up with a short knowledge test in class the following week. Students will take their books home to revise. A revision guide is available to purchase on ScoPay.
Students may also find it helpful to use the following website to revisit topics and quiz themselves.
https://www.bbc.co.uk/bitesize https://senecalearning.com/en-GB/ (click 'Students use for free' and use your school email and password to log-in

Maths

Maths will sit 4 45 minute papers over 4 lessons. These are from 2 sets of full GCSE papers. Paper 1 and 2 will be non-calculator. Paper 3 and 4 will be a calculator. Please bring in your own scientific calculator for these exams. The best place for past papers for revision is https://www.mathsgenie.co.uk/papers.php

Revision lists are below:



Further Maths Revision List https://corbettmaths.com/more/further-maths/ has lots of helpful videos and practise questions you could use to revise. The revision list below has been created by listing the topics from this website that we have covered.

Number

- · Product Rule for Counting
- · Surds (addition/subtraction)
- · Surds (rationalising denominators)

Algebra

- · Expanding Brackets
- · Expanding 3 Brackets
- · Expanding Brackets (Pascal's Triangle)
- · Factorisation (including quadratics)
- · Algebraic Fractions (add/subtract, multiply, divide, equations)
- · Changing the Subject
- · Factor Theorem
- · Algebraic Long Division (use these questions to revise but note that we used the grid method and comparing coefficients method, not long division)
- · Factorising cubics
- · Solving cubics

· Completing the square
· Sketching quadratics
· Solving quadratics (factorisation, completing the square quadratic formula)
· Simultaneous equations (both linear, non-linear, 3 unknowns)
· Linear and quadratic inequalities
· Laws of indices (including fractional and negative)
· nth Terms
· Limiting Values
· Linear and quadratic Sequences

Coordinate Geometry

· Gradient
· Parallel Lines
· Perpendicular Lines
· Distance between two points
· Midpoint of a line
· Ratio (lines)
· Equation of a line
· Equation of a circle (centre is origin)
· Equation of a circle (centre is not the origin)
· Equation of a Tangent to a Circle

MFL

French & German - O band
Listening - Monday 9 June - lesson 4
Reading - Monday 16 June - lesson 5
Writing - Friday 13 June - lesson 2

French - Y band
Listening - Tuesday 10 June - lesson 5
Reading - Thursday 12 June - lesson 2
Writing - Friday 13 June - lesson 1

French & German assessment information
You will have three GCSE-style 45 minute assessments: listening, reading and writing. The tasks will be similar to those which you have completed in lessons and on previous assessments.

In order to prepare for the listening & reading assessments, you need to revise vocabulary, either from your printed vocab sheets or on Language Nut. The tasks will be based on all of the topics we have covered this year:

1 Identity & relationships
2 Healthy living
3 School & future plans
4 Free time
5 Celebrity culture

In addition, for the writing paper, you should practise how to describe a photo card and how to write phrases about the topics above in three tenses. You will be given support in preparing for the writing assessment in lessons.

Music

Year 10	Date – Period - Teacher
10aMu1	Tuesday 10th of June – P2 & P3 GSI

Students will be completing an adapted GCSE exam which will include all topics which students have currently studied. This exam is in two sections. Section A is a listening test in which students answer questions based on what they hear. Section B will be a written section in relation to the Set Works we have studied so far including an essay question. Students should use their books/ online resources to prepare by studying the elements of music and key words. Also, students should revise how Beethoven creates a sense of 'balance' in his first symphony in relation to the elements of music as well as how Queen have used features in Bohemian Rhapsody.
Online resources
GCSE Music - AQA - BBC Bitesize
Students should search 'GCSE Music AQA BBC Bitesize' and scroll down to the 'music theory' section which details several pages to support learning on the elements of music.
Students will also have access to their books containing all the notes from Beethoven and Bohemian Rhapsody.

Performing Arts
Students will not be completing a PPE due to them finishing their component 1 coursework.

PE

Edexcel GCSE PE

45 minutes

Topics to be covered may include:

- The Structure and Functions of the Musculo-skeletal System
- The Structure and Functions of the Cardio-respiratory System
- Anaerobic and Aerobic Energy and the Effects of Exercise
- Movement Analysis
- Physical Training

Revision resources

Folders and textbooks
The Everlearner
https://www.bbc.co.uk/bitesize/examspecs/zxbg39q
https://thepeclassroom.com/edexcel-gcse-pe-revision-resources/

RE

Students need to revise the following areas:-

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

Science

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.
- How Science Works skills such as; analysing data, simple calculations and evaluating information.
- Required practical's:

- Microscopy
- Osmosis
- Food tests
- Enzymes (pH and amylase)
- Rate of Photosynthesis

You will be provided with digital copies of knowledge organisers and past papers, and links to useful websites.

GCSE Combined Science Trilogy – Chemistry

Your assessment will be a full Paper 1 chemistry exam, for which the content was taught in year 9 and 10. The following topics can be assessed:

- Atomic Structure
- The periodic table
- Structure & Bonding
- Chemical Changes
- How Science Works skills such as; analysing data, simple calculations and evaluating information.
- Required Practical Activities:
    - Preparing a soluble salt

Your assessment will last 45 minutes, and you should bring a pen, pencil, calculator and ruler.
You will be provided with digital copies of knowledge organisers and useful revision links via ClassCharts.
A full paper 1 revision homework is set on Seneca for all students to complete prior to the assessment.

GCSE Separate Science: Biology

Your assessment will be on the first 4 large topics of the course. Content was taught in Years 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, Monoclonal antibodies, Plant disease, Discovery and development of drugs.
- How Science Works skills such as; analysing data, simple calculations and evaluating information.
- Required practical's:
    - Microscopy
    - Osmosis
    - Food tests
    - Enzymes (pH and amylase)
    - Microbiology (Effect of antibiotics on bacterial growth)
    - Rate of Photosynthesis

You will be provided with digital copies of knowledge organisers and past papers, and links to useful websites.

GCSE Separate Science: Chemistry

Your assessment will be a full Paper 1 chemistry exam, for which the content was taught in year 9 and 10. The following topics can be assessed:

- Atomic Structure
- The periodic table
- Structure & Bonding
- Chemical Changes
- How Science Works skills such as; analysing data, simple calculations and evaluating information.
- Required Practical Activities:
    - Preparing a soluble salt
    -

Your assessment will last 45 minutes, and you should bring a pen, pencil, calculator and ruler.

All revision resources are available on MS Teams – GCSE Separate Science. Including revision mats, summary notes, knowledge organisers, podcasts and past papers.

GCSE Physics Combined Science Trilogy

Your assessment will be based on a Paper 1 physics exam, for which the content was taught in year 9 and 10. The following topics can be assessed in Paper 1

- P1 – Energy stores & transfers
- P2 – Energy transfers by heating
- P3 – Energy resources
- P4 – Electric Circuits
- P5 – Electricity in the Home
- P6 – Particle Model of Matter
- P7 - Radioactivity
- How Science Works skills such as; analysing data, simple calculations and evaluating information.
- Required practical's:
    - Investigating specific heat capacity
    - Investigating I-V Characteristics
    - Investigating the resistance of a wire
    - Investigating density

Your assessment will last 45 minutes, and you should bring a pen, pencil, calculator and ruler.
You will be provided with digital copies of knowledge organisers and useful revision links via ClassCharts.
A full paper 1 revision homework is set on Seneca for all students to complete prior to the assessment.
GCSE Separate Science: Physics
Your assessment will be based on a Paper 1 physics exam, for which the content was taught in year 9 and 10. The following topics can be assessed in Paper 1

- P1 – Energy stores & transfers
- P2 – Energy transfers by heating
- P3 – Energy resources
- P4 – Electric Circuits
- P5 – Electricity in the Home
- P6 – Particle Model of Matter
- P7 – Radioactivity
- How Science Works skills such as; analysing data, simple calculations and evaluating information.
- Required practical's:
    - Investigating specific heat capacity
    - Investigating thermal insulator
    - Investigating I-V Characteristics
    - Investigating the resistance of a wire
    - Investigating density

Your assessment will last 45 minutes, and you should bring a pen, pencil, calculator and ruler.
All revision resources are available of MS Teams – GCSE Separate Science. Including revision mats, summary notes, knowledge organisers, podcasts and past papers.
A full paper 1 revision homework is set on Seneca for all students to complete prior to the assessment.

Sociology
Paper 1 - Families
Students need to revise:-
Cohabitation
Different family types and reasons for this
Feminist views of the family
Young and Wilmot Symmetrical families
Parsons (Key study)

Paper 2 - Education
Students need to revise:
Functionalism and Education
Marxism and Education
Research Methods
Bowles and Gintis (Key study)