

HELSEBY

High School



Achieving Success
Valuing Others

2021 - 2022

Year 10

Quick Guide

Preparation for

Assessment 1

Business

Topic: Quantitative skills

- Percentages
- Costs, Revenue and Profit
- Break Even

Students should use pages 17-20 in their revision guide to help them to prepare for this assessment and learn the formulas using the formula sheet they have been given in class.

Resources:

<https://www.bbc.co.uk/bitesize/topics/zdnmqp3> <https://www.businessed.co.uk/index.php/home/theory/gcse/edexcel-gcse-9-1-theory-notes-public#1-3-putting-a-business-idea-into-practice>

Computer Science

Students will be assessed on all the work completed so far to include the following:

3.3 Fundamentals of data representation

- 3.3.1 Number bases
- 3.3.2 Converting between number bases
- 3.3.3 Units of Information
- 3.3.4 Binary arithmetic
- 3.3.5 Character encoding
- 3.3.6 Representing images
- 3.3.7 Representing sound
- 3.3.8 Data compression

3.4 Computer systems

- 3.4.1 Hardware and software
- 3.4.2 Boolean logic
- 3.4.3 Software classification
- 3.4.4 Classification of programming languages and translators

Pupils have a full set of class notes, and many chose to purchase the revision book.

Videos of the whole course can be found

here: https://www.youtube.com/c/craigndave/playlists?view=50&sort=dd&shelf_id=4

Design & Technology

Students will undertake a written assessment only as practical work is ongoing.

Date of written assessment -

Mrs Spencer's group: Tuesday 11th January 2022 P2

Mrs Stewart's group: Friday 14th January 2022 - P2

Details of topics covered in the written assessment:

Assessment will be on the following topics from the list below, *depending on their group/teacher*:

10B (Mrs Spencer):

- Work of others/designers
- Timbers & Polymers
- Timber joints
- Tools & equipment when working with timber
- Adhesives
- CAD CAM
- The 6 R's

10D (Mrs Stewart):

- Industry and enterprise
- Working with timbers
- Working with metals
- Analysis of existing products
- Social issues
- Anthropometrics & ergonomics
- Drawing techniques & modelling

DIT

You will be given a full written paper split over two lessons. Revise all of the theory covered so far since September - Sections A to D. Microsoft Teams contains the following in the BTEC DIT Team in the channel on the left marked Revision for Component 3 Exam and then at the top in the Files section.

- Revision list
- Explanation of Command Words
- Past paper questions and model answers
- Revision Videos I have made which are specific to the course
- Knowledge Organisers some blank and some completed

Start by learning the content, key definitions etc and then test yourself by completing past paper questions. Focus on continuing to learn the things you are unsure or , don't waste time trying to re-learn the topics you are very familiar with.

You have access to www.knowitallninja.com which is an online revision system that can be used on a smart phone or tablet. Your username is your email.

Reminder - External examination on Thursday 3rd February.

English

Assessment 1: 'A Christmas Carol'

Students will be given a one hour extract question based on their study of 'A Christmas Carol' by Charles Dickens

Assessment 2: Creative Writing

Students will be given a one hour paper during which time they will write a piece of narrative or descriptive writing.

Enterprise and Marketing

Please update the booklet.

There will be no assessment at this time in Enterprise and Marketing. Students have just completed an assessment and will complete another at the end of February.

Expressive Arts Faculty

Art

Students will be assessed on the application of skills and processes undertaken in their projects so far. The list of skills for Y9 and 10 are written on the Project plans. Classes that are shared will be assessed in either Project 1, Project 2 or both.

Photography

Students will be assessed on the application of skills and processes undertaken in their projects so far. The list of skills are written on the Project plans. Classes that are shared will be assessed in either Project 1, Project 2 or both.

Drama

Students will be assessed on their retention of the meanings of key terminology in lessons during the assessment window. Students will need to use their glossary at the back of their books to help them with these assessments. Students will also be assessed on their knowledge of the set text : 1984 and will answer exam style questions.

Students should use their books to help them revise for this assessment. Copies of 1984 can be borrowed from DS1.

Music

Music students will be assessed on their retention of information they have gathered in previous lessons by writing an exam style essay within class. They will also be given a vocab test. Students should use their books as revision guides. All assessed information will have been covered in lessons.

Performing Arts

Students will be assessed on their practitioner knowledge to date. Students should use books and wider research to help them.

Food Preparation & Nutrition

Students will undertake both a written assessment and a practical assessment.

Details of topics covered in the written assessment:

- Starchy carbohydrate food commodity (topic 2 work covered since November)
- Staple foods & cereal crops, including rice and wheat
- Primary processing of wheat
- Effect of heat on starch (both dry and wet heat)
- Starch based sauces
- Bread making
- Cake making
- Pastry making
- Value of starchy carbohydrate foods in the diet
- General health eating guidelines/principles

Geography

Students will sit a 50-minute exam paper. Students will be tested on the 'People of the UK' unit of work as well as the previous unit, 'Landscapes of the UK'. Students will need to revise from their exercise books and revision guide.

Health & Social Care

No written assessment in January as students are currently undertaking an ongoing internally assessed portfolio unit.

History

Students will sit one 1 hour paper on The People's Health. All topics covered since September will be tested.

Students will use their exercise books and will be provided with revision resources by their class teacher.

All students have access to GCSE Pod and will be directed to specific revision activities using this resource in addition to those provided in class.

Maths

Higher tier

HCF and LCM by Listing

Simple Index Form

Index Notation

Exchange Rates

Evaluate Rate Change

Translations

Describing Transformations

Errors on Data Representations

Percentage Change and Reasoning

Combining Ratios

Pythagoras and Reasoning

The Equation of a Line

Interpret Gradient in Context

Reverse Percentage

Expanding triple brackets

Tree Diagram Problems

Density and Similar Solids

Foundation tier

Ordering and comparing negative numbers

Equivalent ratios

Finding Factors

Essential Fractions, Decimals and Percentages

Metric Conversions

Money Problems

Read a Pictogram

Pictograms

Complete a Pictogram

Travel Timetables

Worded Formula and Substitution

Inverse Operations

Impossible Events

Probability Scales and Words

Perimeter of a Rectangle

Distance and Speed

Speed

Distance Time Graphs

Proportion Problem Solving 1

Rounding

Significant Figures

Powers, Roots and BIDMAS

Substitution

Proportion Recipe Questions

Angles in Triangles and Quadrilaterals

Drawing Straight Line Graphs

Gradient Problems

HCF and LCM by Listing

Translations

Describing Transformations

Media

Students will be assessed on the topic of Advertising and will need to revise the 2 set text adverts they have studied for their Component One exam (Quality Street and This Girl Can) one of which they will need to compare with an 'un-seen' advert. They will also need to revise subject specific terminology and relevant theory.

The first place to revise this is from their books and folders, then the Eduqas Media GCSE website (link below) and the Mrs Fisher YouTube revision videos, again, linked below:

<https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rIid=950>

<http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/gft/eduqas/mediastudies/GCSE%20media%20studies%20Glossary.pdf>

<https://www.youtube.com/watch?v=nKI1BOyaKp8>

https://www.youtube.com/watch?v=0om_gIXb0ck

<https://www.youtube.com/watch?v=k9LyEfOPNi4>

<https://www.youtube.com/watch?v=1AHO8rMioSk>

MFL

French

During the assessment, students will complete a range of reading and listening tasks and a short translation task into English. The tasks are all based on the topics of town/region and holidays. Make sure that you go over the main tenses and negatives, so that you can be sure of what the people are describing.

Revision support materials:

- Vocab booklets (sections 4 & 5)
- BBC Bitesize GCSE AQA French
- ActiveLearn - Studio 4 Active Learn tasks
- Linguascope - sections on town & holidays (intermediate French)

German

During the assessment, students will complete a range of reading and listening tasks and a short translation into English. The content will be drawn from the topics of school, free time, home and region, lifestyle including use of technology, sport, food & drink and daily routine.

During their revision, students should practise understanding and translating the 3 main tenses (past, present & future), modal verbs, subordinating conjunctions (weil, wenn, obwohl, dass), and opinions (nicht) gern, lieber, am liebsten, with reasons.

Revision support materials:

- Vocab lists & knowledge organisers
- Practice written tasks in exercise books
- Website – BBC Bitesize GCSE AQA German
- ActiveLearn - Stimmt 4 Active Learn tasks

PE

Students will be assessed on:

Muscular-Skeletal System - bones, joints, muscle anatomy, muscle types, antagonistic pairs

Past papers and other resources are accessible in the PE folder in the shared area. Students should use their notes along with their textbook to revise knowledge points and access the past papers to practice recalling and applying their knowledge. It is expected that revision notes will be created by each student to support their preparation for the exam.

Religious Education

Marriage & Family unit and Christian Beliefs.

Science

Biology

The test will cover the following topics

- Photosynthesis
- Heart Disease
- Cells
- Microscopes
- Stem cells
- Mitosis
- Cancer

- Diffusion
- Blood
- Heart
- Blood vessels
- Digestion
- Enzymes
- Active transport

The assessment includes work from Year 9 and Year 10.

You will have been sent some resources for you to use via SMHW.

Chemistry

C1 Atomic Structure

C1 The Periodic Table

C2 Structure and Bonding.

C4 Chemical Reactions – Metal reactions, Reactions of acids, Electrolysis.

Attached to SMHW for all groups is a Knowledge Organiser, a Knowledge checklist and a link to C1 Atomic Structure & Periodic Table topic on BBC Bitesize, Oak Academy and Keoodle

Physics

Pupils will be assessed on the following topics:

Topics from Y9 (2020-2021)

Introduction to Energy

Energy stores and systems

Particle model of matter

4.3.1.1 Density of materials - The particle model of matter

4.3.1.1 How to determine density of regular/irregular solids and liquids (RP)

4.3.1.2 Changes of state

4.3.2.1 Internal energy

Waves

4.6.1.1 Transverse and longitudinal waves

4.6.2.1 Types of electromagnetic waves

4.6.2.2 Properties of electromagnetic waves

4.6.2.2 Investigate how amount of I/R absorbed/radiated depends on surface (RP)

4.6.2.4 Uses and applications of electromagnetic waves

Forces

4.5.1.2 Contact and non-contact forces

4.5.1.3 Gravity

4.1.1.2 Changes in energy - GPE and KE

4.5.1.4 Resultant forces

4.5.1.1 Scalar and vector quantities

4.5.6.1.1 Distance and displacement

4.5.6.1.2 Speed, 4.5.6.1.3 Velocity

P4 Electric circuits

P4.2 Current and charge

P4.3 Potential difference and resistance

P4.4 Component characteristics

P4.5 Series circuits

P4.6 Parallel circuits

P5 Electricity in the home

P5.1 Alternating current

P5.2 Cables and plugs

P5.3 Electrical power and potential difference

P5.4 Electrical currents and energy transfer

P5.5 Appliances and efficiency

Topics from Y10 (2021-2022)

P12 Wave properties

P12.1 The nature of waves

P12.2 The properties of waves

P12.3 Reflection and refraction (Higher Tier Only)

P12.4 More about waves

P1 Conservation and dissipation of energy

P1.1 Changes in energy stores

P1.2 Conservation of energy

P1.3 Energy and work

P1.4 Gravitational potential energy stores

P1.5 Kinetic energy and elastic energy stores

Energy transfer calcs (GPE to KE etc)

P1.6 Energy dissipation

P1.7 Energy and efficiency

P1.8 Electrical appliances

P1.9 Energy and power

P2 Energy transfer by heating

P2.1 Energy transfer by conduction

P2.4 Specific heat capacity

P2.4 SHC calculations

P2.5 Heating and insulating buildings

Resources will be put on to SMH.

Sports Studies

Contemporary Issues

Learning Outcome 1:

- User groups,
- barriers to participation,
- solutions to barriers,
- factors which impact upon the popularity of a sport in the UK

Learning Outcome 2:

- Values which can be promoted through sport
- Olympic and paralympic movement (values, creed, symbol)
- Initiatives and events which promote values