

## Year 11 Assessment Week 3

Thursday 21<sup>st</sup> – Friday 29<sup>th</sup> March 2019

**Subject: Maths**

Content and length of exam: 1 x 90 minute exam – a past paper (calculator)

List of topics to revise:

Fractions

Decimals

Percentages

Rounding

Limits of accuracy

Expanding & factorising

Solving equations

Properties of 2D shapes

Measuring lines and angles

Bearings

Graphs & charts (including bar charts, pie charts, pictograms etc)

Scatter graphs, lines of best fit & correlation

Angles rules (vertically opposite angles, angles on a straight line, angles at a point)

Angles in polygons

Angles in parallel lines

Pythagoras

Circle terms

Area of 2D shapes

Volume of 3D shapes

Circumference of a circle and arc length

Area of a circle and sector area

Probability

Frequency trees

Ratio

Compound measures (e.g. speed & density)

Linear graphs

Sequences

Tree diagrams

Venn diagrams

Probability in AND and OR questions

Listing strategies

Averages and the range

Quartiles and the interquartile range (higher tier only)

Cumulative frequency and boxplots (higher tier only)

Expanding two brackets

Expanding more than two brackets (higher tier only)

Index rules

Solving quadratics by factorising

Solving quadratics by completing the square and by using the quadratic formula (higher tier only)

The features of a quadratic graph

Solving quadratics graphically

Fractional indices (higher tier only)

Surds (higher tier only)

Recurring decimals (higher tier only)  
Bounds (higher tier only)  
Rearranging formulae  
Graphs of linear, quadratic, cubic & reciprocal functions  
Graphs of reciprocal functions (higher tier only)  
Solve linear inequalities  
Simultaneous equations  
Solving quadratic inequalities  
Constructions & loci  
Congruence  
Transformations  
Similarity  
Vectors

**Subject: Statistics**

Content and length of exam: 2 hour exam (sets 1&2 – higher tier) and 1 hour 30 minutes exam (mixed sets – foundation tier) – a past paper (calculator)

List of topics to revise: Hypotheses  
Types of data  
Population & sample frame  
Sampling methods and their features  
Data sources  
Data collection methods  
Control groups (higher tier only)  
Tables, tally charts, pictograms, pie charts, stem and leaf diagrams & Venn diagrams  
Comparative pie charts (higher tier only)  
Population pyramids & choropleth maps  
Bar charts, line graphs, time series, scatter diagrams, vertical line charts, frequency polygons, cumulative frequency charts, histograms, and box plots  
Histograms with unequal class width (higher tier only)  
Skewness (by sight)  
Skewness (by calculation) (higher tier only)  
Mode, median, arithmetic mean  
Weighted mean, geometric mean, mean seasonal variation (higher tier only)  
Range, quartiles, interquartile range (IQR), percentiles  
Interpercentile range, interdecile range, standard deviation (higher tier only)  
Outliers (by sight)  
Outliers (by calculation) (higher tier only)  
Retail price index (RPI), consumer price index (CPI) and gross domestic product (GDP)  
Percentage change, birth rate, death rate, house price changes, and unemployment changes  
Scatter graphs, line of best fit and correlation  
Equation of the line of regression (higher tier only)  
Spearman's rank (higher tier only)  
Pearson's product moment correlation coefficient (higher tier only)  
Moving averages and trends  
Quality assurance (higher tier only)  
Petersen's capture recapture method (higher tier only)  
Probability  
Use two-way tables, sample space diagrams, tree diagrams and Venn diagrams for multiple events  
Probability for independent events

Conditional probability  
Binomial distribution (higher tier only)  
Normal distribution (higher tier only)

### Subject: English language

Content and length of exam: Lang P1 – 105 mins( Q1-4 reading, Q5 – writing)

**What does the exam look like?** Two reading sources that are thematically linked, both non fiction, one will be 19<sup>th</sup> century. 4 associated questions, that follow the same source. Q2 – give a summary of the differences between the 2 sources. Q3 – analyse how the language is used for a specified purpose in a given source Q4 – *compare how writers' attitudes are shown in both sources*.

**How is the exam marked?** The response is marked out of 40: Q1= 4 marks, Q2 = 8 marks, Q3 = 12 marks , Q4 = 16 marks. It is marked in relation to skills demonstrated, so timings are more important than amount written...

**How to revise.** Pick up nonfiction texts, supplements in newspapers, online articles etc and then practice answering the questions. They will always follow the same format! There are also plenty of past papers that are available from teachers. Online helpful resources are Mr Bruff's YouTube channel and BBC Bitesize.

- Language P2 Q5 (writing) 45mins

**What does the exam look like?** One question, responding to a given statement, in a given format (letter, article, text for a leaflet, text for a speech or essay) . The purpose of writing is to explain, instruct/advise, argue or persuade .

**How is the exam marked?** The response is marked out of 40, with 24 marks available for *subject content and organisation* (communicating effectively and imaginatively, adapting tone and style for a purpose) and 16 marks for *technical accuracy* (sentence, punctuation and vocabulary use).

**How to revise.** Read non fiction articles/essay as good examples – editor opinion pieces in broadsheets are perfect examples. Make sure you focus on including a variety of sentence structure, punctuation and vocabulary. Try to include specific language techniques. Maybe even make a 'checklist' of things to include. Online helpful resources are Mr Bruff's YouTube channel and BBC Bitesize.

### Subject: English literature

Content and length of exam: Lit P2 – 135 mins  
(An Inspector Calls/Power and Conflict Poetry/Unseen Poetry)

Content and length of exam: Lit P1 – 105 mins  
(The Strange Case of Dr Jekyll and Mr Hyde /Macbeth)

List of topics to revise: Know your texts. Practice PQE response/MESSI. Learn key quotes for the texts (as all are closed book exams) Maybe even make a 'checklist' of things to include. Online helpful resources are Mr Bruff's YouTube channel and BBC Bitesize.

### Subject: Science

Content and length of exam: 90 minutes

List of topics to revise:

Year 11 comb B - Organisation of Eco Selective breeding Nervous system and ALL GCSE Units

Year 11 comb C – Yr11 Equilibria, Y11 Quantitative Chemistry and ALL GCSE Units

Year 11 comb P - Y11 Forces, Y11 Waves and ALL GCSE Units

Year 11 Tri B – Sensing environment DNA and cloning Ecosystem and human impact and ALL GCSE

Units

Year 11 Tri C – Y11 Quantitative chemistry, Y11 Equilibria and fertilisers, Y11 Tests for ions  
Everything else (easier for chemistry as a synoptic subject) and ALL GCSE Units  
Year 11 Tri P - Tri Moments, levers and Gears, Tri Space physics, Tri Waves advanced skills and ALL  
GCSE Units

**Skills for the exam:**

- 1) 6 mark questions marks scheme
- 2) Be able to do these things for the Required Practicals
  - a) Identify the independent, dependent and control variables
  - b) Write a step by step method for the experiment saying how you will control the variables, safety considerations and the values of the independent variables.
  - c) Write a conclusion and evaluation for experimental data
  - d) Interpret graphs and other data sets using data to illustrate your point.
  - e) Know the command words; Describe, Explain, Suggest, Compare, Calculate and Evaluate, and be able to answer these types of questions.

**Subject: Drama**

Content and length of exam: 60mins

List of topics to revise:

Component 1- Understanding Drama **1 hour**

**What does the exam look like?**

- Component 1- Section A (knowledge and understanding) **5 minutes**
- Component 1- Section B (set text study- Blood Brothers) **40 mins**
- Component 1- Section C (live theatre) **1 hour**

**How is the exam marked?**

- Worth 80 marks in total
- Section A is multiple choice (4 questions) and is worth a total of 4 marks
- Section B contains 4 questions- question 1 is worth 4 marks, question 2 is worth 8 marks, question 3 is worth 12 marks and question 4 is worth 20 marks
- Section C is 1 question and is worth a total of 32 marks

**How to revise:**

- BBC Bitesize is brilliant for section A
- See as much (range) of theatre as possible
- See the performance of Blood Brothers at the theatre
- Watch alternative versions of Blood Brothers on YouTube
- By a Blood Brothers revision guide
- Answer mock questions and implement feedback to the next
- Re-read the play you will answer section C on
- Learn alternative words to describe somebody's voice- sheet will be given to you with this list
- Learn the different Drama terminology- sheet will be given to you with this list

**Subject: Media studies**

Content and length of exam: 60 marks (20+10 mark questions) (1.5hours)

List of topics to revise:

**Topic 1:**

Radio – *The Archers*

- BBC - Public Broadcasting Services vs Commercial radio stations
- Funding

- Context (Historical & social)
- Target audience
- Analyse Rob & Helen storyline
- Convergence and technology
- *The Archers* website
- Regulation - OFCOM

**Topic 2:**

- Newspapers – *Sun & Guardian*
- What is news?
- How do you access the news?
- Newspaper formats – tabloid/mid-market/broadsheet
- Language – *Sun & Guardian*
- Target audience - *Sun & Guardian*
- Representation – *Sun & Guardian*
- News values
- News story structure

**Subject: Spanish**

Content and length of exam: Three exams = (1 x reading = 1 hour & 1 x writing = 1 hour 20 minutes & 1 x listening = 50 minutes).

List of topics to revise: This will be a full mock exam and therefore cover topics covered throughout Year 10 & 11:

Theme 1: Identity and Culture.

- Me, my family and friends.
- Technology in everyday life.
- Free time activities.
- Customs and Festivals.

Theme 2: National and International areas of interest.

- Global issues.
- Travel and Tourism.
- Social Issues.
- Town, neighbourhood and region.

Theme 3: Current, future study and employment.

- Life at school and college.
- Jobs and future career.

Resources:

- CGP New Spanish GCSE 9-1 complete revision guide.
- Powerpoints uploaded by classroom teacher to Class Charts to accompany homework.
- BBC Bitesize Spanish website.
- Duolingo Language Learning app.

**Subject: French**

Content and length of exam: Three exams = (1 x reading = 1 hour & 1 x writing = 1 hour 20 minutes &

1 x listening = 50 minutes).

List of topics to revise: This will be a full mock exam and therefore cover topics covered throughout Year 10 & 11:

Theme 1: Identity and Culture.

- Me, my family and friends.
- Technology in everyday life.
- Free time activities.
- Customs and Festivals.

Theme 2: National and International areas of interest.

- Global issues.
- Travel and Tourism.
- Social Issues.
- Town, neighbourhood and region.

Theme 3: Current, future study and employment.

- Life at school and college.
- Jobs and future career.

Resources:

- CGP New French GCSE 9-1 complete revision guide.
- Powerpoints uploaded by classroom teacher to Class Charts to accompany homework.
- BBC Bitesize French website.
- Duolingo Language Learning app.

### **Subject: Business studies**

Content and length of exam: Building a business. 1 hour 30mins.

List of topics to revise:

(Whole of unit 2)

1. Growing the business
2. Making marketing decisions
3. making operational decisions
4. Making financial decisions
5. Making Human resources decisions

### **Subject: History**

Content and length of exam: 1 hour 40 minutes

Topic: Anglo-Saxon and Norman England

Content for the exam

Anglo-Saxon England and the Norman invasion

Anglo-Saxon society

The last years of Edward the Confessor's reign and the succession crisis

Rival claims to the throne

Harold Godwineson

Harald Hardrada

William of Normandy

William in power: establishing the kingdom

Establishing control (castles, laws, rewarding loyalty)

The causes and outcomes of the Anglo-Saxon resistance, 1068-71

The consequences of Anglo-Saxon resistance - Harrying of the North

Revolt of the Earls, 1075

Norman England, 1066-88

The feudal system and the Church  
Key features of Norman government  
The Norman aristocracy  
William I and his sons

- You are also going to be tested on **Superpower Relation/Cold War**. You need to revise everything - the whole unit. Mr Needs will be uploading a revision guide for you on Classcharts, which should help.

#### Skills for the exam

Use P.E.E.E.L (Point, Evidence, Explanation, Evidence, Explanation, Link) structure for ALL paragraphs

Remember to use Statistics, People, Evidence, Names and Dates (SPEND) in your paragraphs

4 mark questions:

You are given a few lines to write about each key feature. Allow 5 minutes to write your answers.

12 mark questions:

Allow 20 minutes to answer this question. You'll be given some bullet points to help you. Develop these points if you can (you won't lose marks if you don't). Add information of your own in addition to the bullet points. Aim to have at least three explained reasons.

16 mark question

This question is worth half of the total marks for the depth study. Give yourself 30 minutes to answer it. You need to ensure that you identify which 'concept' the question is about (cause, significance, consequence, change, continuity, similarity or difference).

The 16 mark question will ask you about how far you agree and you should think about both sides of the argument.

- Plan your 16 mark answer before you write it: arguments For and Against. Aim to think of at least three distinct points.

#### **Subject: Geography**

Content and length of exam: 1 hour 30 minutes

List of topics to revise:

- See full checklist booklet on Google Classroom from KFL and RCA
- Including:
- Impact of marine processes on the coast: Erosion (Hydraulic Action, Abrasion, Solution, Attrition)
- Impact of land processes on the coast: Weathering (Chemical, Biological, Mechanical) Mass Movement (Rock Falls, Sliding, Slumping) Transportation & Deposition
- Influence of waves and geology on the coastal landscape (including types of waves and geological structures)
- How different coastal landforms are formed (Cliffs and wave-cut platforms, caves, arches and stacks)
- Landforms formed through coastal deposition (Longshore drift, beaches, spits, bars, tombolos)
- Investigate coastal landscapes using OS maps
- The causes and effects of coastal erosion and recession
- The Dawlish Warren Spit – management plans for the spit in the future
- Human and physical factors changing the spit

- Dawlish Warren beach management scheme
- Atmospheric circulation, jet streams
- Oceanic circulation
- Global climate change, natural causes of climate change
- Evidence of natural and human climate change
- Negative impacts of climate change
- The UKS Climate
- Tropical cyclones

**Subject: Computer Science**

Content and length of exam: 1 hour 30 minutes

List of topics to revise:

1. Fundamentals algorithm
  - 1.1. Algorithms, Decomposition and Abstraction
  - 1.2. Developing algorithms using flowcharts
  - 1.3. Developing algorithms using pseudocode
  
- 2.A. Programming basics
  - 2.1. Data types and operations
  - 2.2. Sequence and Selection
  - 2.3. Iteration
  - 2.4. Lists
  - 2.5. Records and files
  
- 2.B. Programming techniques
  - 2B.1. Procedures and Functions
  - 2B.2 Validation and Authentication
  - 2B.3. Determining the purpose of algorithm
  - 2B.4. Errors and testing
  - 2B.5. Classification of programming languages
  
3. Data representation
  - 3.1. Storage units and Binary numbers
  - 3.2. Binary arithmetic and hexadecimal
  - 3.3. ASCII and Unicode
  - 3.4. Images
  - 3.5. Sound
  - 3.6. Compression
  
4. Computer systems
  - 4.1. Boolean Logic
  - 4.2. Application and System software
  - 4.3. System Architecture
  - 4.4. The CPU and Fetch Execute cycle
  - 4.5. Memory
  - 4.6. Secondary storage
  
5. Fundamentals of computer networks

- 5.1. Wired and wireless networks
- 5.2. network topologies and transmission
- 5.3. Network security
- 5.4. protocols and layer

6. Fundamental of cyber security

- 6.1. Cyber security threats
- 6.2. Social engineering
- 6.3. Malicious code
- 6.4. detecting and preventing cyber security threats

7. Impacts of digital technology

- 7.1. Ethical issues
- 7.2. Digital technology in society
- 7.3. legislation and privacy

<b>Revision Materials</b>
1. AQA GCSE (9 - 1) Computer Science Textbook
2. AQA past papers Q&A workbook
3. Dynamic Learning
3. Class revision notes and exercises

**Subject: Physical Education**

Content and length of exam: Paper 2 - 1 hour 15 minutes - the year group will be having another exam on Friday 15<sup>th</sup> March for paper 1 as they have 2 papers but only space for one paper in exam week. Paper 1 – 1 hour 45 minutes.

Paper 2 – sitting during exam week

- 1.1.1 – Physical, emotional and social health, fitness and well being
- 1.1.2 – Consequences of a sedentary diet
- 1.1.3 Energy use, diet, nutrition and hydration
- 2.1 – Classification of skills
- 2.2 – Goal setting
- 2.3 – Guidance and feedback on performance
- 2.4 – Mental preparation for performance
- 3.1 – Engagement patterns of different social groups
- 3.2 – Commercialisation of sport
- 3.3 – Ethical and socio – cultural issues in sport
- 4.1 – Use of data

Paper 1 sitting on 15<sup>th</sup> March during core PE.

- 1.1 – Structure of the muscular-skeletal system
- 1.4 / 3.4 – Short and long term effects of exercise on the musculoskeletal system
- 1.1 – The structure and function of the cardio respiratory system.
  - 1.4 / 3.4 - Short and Long term effects of exercise on the cardio respiratory system.
  - 1.5 – Anaerobic and aerobic exercise
- 2.1 – Lever Systems
- 2.2 – Planes and Axes of movement

- 3.1 - The relationship between health and fitness and the role that exercise plays in both
- 3.2 – Components of fitness and fitness testing
- 3.3 – Principles of training
- 3.5 – How to optimise training and prevent injury
- 3.6 – Effective use of a warm up and cool down

Extra support can be found in: All BBC Bitesize GCSE PE Edexcel, Revision guides in PE, SAM Learning

### **Subject: Food Preparation & Nutrition**

Content and length of exam: 1 hour 30 minutes

List of topics to revise:

#### FOOD, NUTRITION & HEALTH

Macro nutrients – protein, fat & carbohydrate (Revision guide pages 1-5)

Micro nutrients – FAT SOLUBLE ADEK & WATER SOLUBLE B1,B2,B3,B12 & C

Antioxidant function of vitamins ACE (Revision guide pages 10-13)

Minerals – calcium, iron, sodium, fluoride, iodine & phosphorus

Water – functions, hydration & dehydration

#### NUTRITIONAL NEEDS & HEALTH

Making informed choices for varied and balanced diet (Revision guide pages 16-19)

Healthy eating & Eatwell guide

Portion size and costing

Peoples nutritional needs & planning meals for different life stages & dietary needs (Revision guide pages 59-63)

Energy needs – PAL & BMR

Nutritional Analysis & modifying recipes

Health Risks – CHD, obesity, rickets, osteoporosis, dental health & type 2 diabetes

#### FOOD SCIENCE

Cooking of food and heat transfer (Revision guide pages 31-34)

Why food is cooked & methods of heat transfer

Selecting appropriate cooking methods

Functional & chemical properties of food (Revision guide pages 39-43)

Protein – Denaturation, coagulation, gluten formation & foam formation

Carbohydrates – Gelatinisation, dextrination & caramelisation

Fats & Oils – Shortening, aeration, plasticity & emulsification

Fruit & Vegetables – Enzymic browning & oxidation

Raising Agents – chemical, mechanical & steam

### **Subject: Design & Technology**

Content and length of exam: 2 hours

List of topics to revise:

#### Section A - Core Technical Principles -

Unit 1 - New and emerging technologies;

Unit 2 - Energy generation and storage;

Unit 3 - Development in new materials

Unit 4 - Systems approach to designing;

Unit 5 - Mechanic devices;

Unit 6 - Materials and working properties

#### Section B - Materials and working properties -

Specialist technical principles - papers and boards

#### Section C - Designing and making principles

Investigation, primary and secondary data;

Environmental, social and economic challenge;  
The work of others;  
Design strategies;  
Communication of design ideas;  
Prototype development;  
Selection of materials and components;  
Tolerances;  
Material management;  
Specialist tools and equipment;  
Specialist techniques and processes

Revision resources also on Google Classroom and Dynamic Learning

**Subject: Religious studies**

Content and length of exam: 1 hour 30 minutes

List of topics to revise:

**Boys should know about:-**

***The 5 pillars of Islam... in detail.***

***They should also know details of the 3 festivals, Eid-ul-Adha, Eid-ul-Fitr and the festival of Ashura.***

***Boys should also know about angels, prophethood and Adam, Ibrahim, Muhammad and the Immanate.***

**Boys should also know about:-**

***Prayer and worship in Christianity***

***The sacraments of Baptism and Holy Communion***

***The Christian festivals of Christmas and Easter***

***Evangelisation and Mission.***

***The Church in the local community***

***The Church and global poverty***

***Pilgrimage***

***Boys should also know about:-***

**Religion and Life with a focus on abortion, euthanasia, the origins of the universe and the origins of human life.**

**Religion, Peace and Conflict with a focus on the Just War theory, pacifism and peace-making.**

**BOYS MUST read chapters 1 and 2, 4 and 6 from both the Christianity textbook and the**

Islam textbook. The chapters will be scanned shortly and be posted to ClassCharts.

**Subject: Music**

Content and length of exam: Area of Study 3 - 100 minutes

List of topics to revise:

Film music

Revision Material: Eduqas GCSE Music Textbook, Revision notes (found in students' Music Folders), Eduqas Website online digital resources.

Useful URL links:

- <http://www.todhigh.co.uk/music-revision/>

**Subject: Art**

Content and length of exam: 90 minutes (double lesson)

The exam paper will be broken up into sections themed:

1. Natural Forms
2. Messages
3. Texture

The students must only carry out **one** of these (the theme they have chosen for their unit 2 GCSE project.)

The students will be required to draw the image using relevant 2D media (eg pencil/biro pen etc.)

They must then write about how they have used materials to create their image.

List of topics to revise: No revision necessary

**Subject: Prince's Trust**

Content and length of exam: NO EXAM – PUPILS TO COME TO SCHOOL LATE

List of topics to revise: