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**Year 11 Practice Exams**

**Revision Guidance**

**March 2020**



**Introduction**

* From the 23rd March - 3rd April, Yr.11 will be involved in practice examinations. It is important that this experience is as realistic as possible in order to familiarise students with exam routines in preparation for the GCSEs in summer. It is also an excellent opportunity to practise revision skills and exam technique.
* All students will follow exam procedures in accordance with the Joint Council for Qualifications (JCQ) regulations. This includes lining up outside the Theatre or D Block, and being called in one at a time by the invigilators. All students must be silent throughout their exam, until dismissed at the end of the session.
* A member of SLT will be present at the start of each examination.
* Students need to be aware of what equipment they will need for each exam. Pencil cases, if brought in, should be transparent and contain no paper. Pockets need to be emptied. If students fail to bring the necessary equipment to the exams, their name and tutor group will be recorded by the invigilating staff, along with a list of equipment that has been borrowed. A detention will then be issued.
* Mobile phones need to be switched off and left in bags outside of the exam room; Students in the theatre will place their bags/coats in practice room 1 and students in D block will use the room on the bottom corridor to store their belongings. Wristwatches are to be taken off and placed on the exam desk in accordance with JCQ regulations. Smart watches are not allowed.
* Throughout the exams, the behaviour system is to be followed. A radio will be in the theatre and exams room for any removals.

**During the practice exam period, there will inevitably be some students who miss their exams through illness or unexpected absence. Those students will sit the missed exam(s) at the first available opportunity when they are next in school.**

**Year 11 Key dates**

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| ENGAGEMENT REPORT | w/c October 14th 2019 |
| SUBJECT PARENTS EVENING 1 | November 28th 2019 |
| PRACTICE EXAMS | 2nd – 13th December 2019 |
| TUTOR REPORT | w/c January 27th 2020 |
| SUBJECT PARENTS EVENING 2 | March 5th 2020 |
| PRACTICE EXAMS | 23rd March – 3rd April 2020 |
| DATA REPORT | w/c April 27th 2020 |
| PUBLIC SUMMER EXAMS BEGIN | May 2020 |
| RESULTS DAY | August 20th 2020 |

**Key contacts**

**House Progress Leaders**

**Campbell -** Miss O’Neill d.oneill@whs.lancs.sch.uk

**MacArthur -** Mrs Park l.park@whs.lancs.sch.uk

**Sharman -** Mr Carrolla.carroll@whs.lancs.sch.uk

Pastoral queries please contact the *Student Support and Intervention Manager:*

 **Mr J Barnish** j.barnish@whs.lancs.sch.uk

Or the *Pastoral and Behaviour Manager :*

**Miss R Butler**  r.butler@whs.lancs.sch.uk

**Practice exam timetable**

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| **First week of exams**  | **MON**  | **TUES**  | **WED**  | **THURS**  | **FRI**  |
| **(Wk1)**  | **23.03.20**  | **24.03.20**  | **25.03.20**  | **26.03.20**  | **27.03.20**  |
| **8.45-9.45 Period 1**  | Art all day   |  Spanish Speaking 1:1 appointments all day  | English Lit Paper 1 2hr   | Maths  Paper 1 1 hr 30 mins  |  Chemistry 1 hr 15 min     | Comp. Sci 1 hr 30 min   |
| **9.45-10.45 Period 2**  |
| **Break**  | **Break**  | **Break**  | **Break**  | **Break**  | **Break**  |
| **11.05-12.05 Period 3**  | Art all day   | Spanish Speaking 1:1 appointments all day  | PE Paper 1  1hr  | Geography 1hr 30 min  |  FPN 1 hr 45 mins  | Physics  1 hr 15 min  |
| **12.05-1.05 Period 4**  |
| **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  |
| **1.45-2.00 Tutor**  |  |  |  |  | PE  Paper 2 1 hr  |
| **2.00-3.00 Period 5**  | Art all day   | Spanish Speaking 1:1 appointments all day  |  |  |  |

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| **Second week of exams**  | **MON**  | **TUES**  | **WED**  | **THURS**  | **FRI**  |
| **(Wk2)**  | **30.03.20**  | **31.03.20**  | **1.04.20**  | **2.04.20**  | **3.04.20**  |
| **8.45-9.45 Period 1**  | Biology 1 hr 15 min  | Maths  Paper 3 1 hour 30 min  |   |   |   |
| **9.45-10.45 Period 2**  |   |   |   |
| **Break**  | **Break**  | **Break**  | **Break**  | **Break**  | **Break**  |
| **11.05-12.05 Period 3**  | Maths  Paper 2 1 hour 30 min  | English Lang Paper 2 2 hr   |    |   |   |
| **12.05-1.05 Period 4**  |   |   |   |
| **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  |
| **1.45-2.00 Tutor**  |   |   |   |   |   |
| **2.00-3.00 Period 5**  |   |   |   |   |   |

**Individual Subject**

 **Guidance**



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| **Subject and Exam Board**  |  **Art and Design – Fine Art**  **OCR** |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.  | **5 hours Supervised Time** - given for the completion of the Coursework Portfolio (60% of total GCSE) Final Piece.* Students will complete the 5 hour exam during one whole day, you should arrive at C2 at 08.45am to prepare your working area, you will be required to bring any additional equipment you may require with you on the day. The exam will begin at 9am. You will access your normal break and lunch and finish the day at 3pm.
 |
| **Exam content** Overview of topics on the exam  | * **AO1:** Develop ideas through investigations, demonstrating critical understanding or sources. 30 marks
* **AO2:** Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes. 30 marks
* **AO3:** Record ideas, observations and insights relevant to intentions as work progresses. 30 marks
* **AO4:** Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language. 30 marks

**Total - 120 marks**  **Conditions of the work produced:** **All work** produced within the allocated exam period will be kept in school by your teacher for the duration of the remainder of the course.   |
| **Special requirements for exam**  e.g. calculator   | Students will be provided with all basic equipment during the examination. Students will be required to bring any additional specialist equipment with them for use in the exam. No food or drink is allowed.**Practical** **Exam Regulations:** * Students will be informed of the individual allocation to equipment upon arrival to the examination, all equipment will be shared equally.
* Students should not communicate with anyone other than the teacher invigilating the exam.
* Students will be informed regularly of the passing of time.
* Students must not behave in such a way that it is impossible for another student to take the examination in normal conditions.

**Students must not leave the examination unless specifically told to do so by the teacher invigilation the examination.** |
| **Revision advice**  | You should spend a good amount of time preparing for your examination at home and during lessons, I would strongly advise that they make use of the remaining time, ensuring they are prepared well in advance. This must include drawing/taking any remaining images required for their Coursework Portfolio to be brought with them to their examination.   |
| **Revision resources/Useful websites** | GCSE Art and Design on BBC bitesize: <https://www.bbc.co.uk/bitesize/subjects/z6hs34j>  |

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| **Subject and Exam Board**  | **Computer Science**  **OCR** |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.  | 1 Paper (Unit 1 Content)  1 Hour 30 Mins  80 available Marks  |
| **Exam content** Overview of topics on the exam  |

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| **1.1 Systems architecture** CPU purpose, Von Neumann architecture: - registers, CPU components and their function (ALU, CU, Cache), FDE cycle, CPUs performance (clock speed, cache size, number of cores), embedded systems:   |
| **1.2 Memory** RAM and ROM purpose of and differences, the need for virtual memory **1.3 Storage**  secondary storage, data capacity, common types of storage (optical, magnetic, solid state), suitable storage devices and storage media,   Characteristics (capacity- speed -portability-durability- reliability)  |
| **1.4 Wired and wireless networks** Types of networks (LAN, WAN), performance of networks, client-server and a peer-to-peer network, hardware needed to connect, the internet, DNS, hosting, virtual networks.  |
| **1.5 Network Topologies, Protocols and Layers** Star and mesh topologies, Wi-Fi, Ethernet, IP addressing, MAC addressing, protocols (TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP, layers, packet switching **1.6 System security** Forms of attack, threats posed to networks: malware, phishing, social engineering, brute force attacks, denial of service attacks, data interception and theft, SQL injection, poor network policy. Identifying and preventing vulnerabilities: penetration testing, network forensics, network policies, anti-malware software, firewalls, user access levels, passwords, encryption. **1.7 Systems Software** Purpose and functionality of systems software, operating systems, utility system software, methods of backup: full, incremental.  |

 **1.8 Ethical, legal, cultural and Environmental concerns** Ethical issues, legal issues, cultural issues, environmental issues, privacy issues, stakeholders, open source vs proprietary software, legislation relevant to Computer Science  |
| **Special requirements for exam**  e.g. calculator   |  No calculator allowed  |

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| **Revision advice**  |  Produce revision materials, such as large mind-maps/knowledge organisers, flash cards, “DIY” exam papers and mark schemes. * Look at test scores from unit exams to help you focus on weaker areas.
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| **Revision resources/Useful websites**    | * Knowledge organisers on class "Team" (Microsoft 365)
* Answer questions in the CGP workbook
* Use the CGP Revision guide
* Use Smart revise (5-10 Mins a day)
* Seneca
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| **Subject and Exam Board**  | **English Language Educas**  |
| **Exam format**Number of papers, length of papers, number of sections, marks available etc.  | Component 1 paper (1 hour and 45 minutes)  **There are 5 questions in the reading section.** A1- retrieval and inference skills A2- language and structural analysis A3- Language and structural analysis A4- Language and structural analysis; personal reactions A5- critical evaluation of writer’s techniques.  |
| **Exam content** Overview of topics on the exam  | Section A: 20th Century fiction Section B: Creative writing  |
| **Special requirements for exam** e.g. calculator   | None |
| **Revision advice**  |  **Section A** **Spend 10 minutes reading** the extract. **Spend** **50 minutes answering** the questions. Pay attention to line numbers as you will be told where to look to answer each question. ***You will not get marks if you look at a different part of the text.*** * You are free to underline, circle, highlight and annotate the insert.
* The questions are on a separate page from the answer booklet so it is vital that you READ every instruction and word on the question paper.
* Make sure you number your questions in the margin provided!
* Marks are shown at the end of the question.
* The *italics* show you what to include, as do the bullet points.

**Structuring your answers:** Point Evidence Technique (How questions only) Effect Reader response  **Section B** Choose **one** of the titles for your writing. Don’t forget to include: * Paragraphs
* Accurate spelling
* Accurate basic punctuation
* Wider punctuation
* Crafting of sentences
* Language devices
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| **Revision resources/Useful websites** | Use your workbooks and resource folders. <https://www.bbc.com/bitesize/guides/zsf2v4j/revision/1>  |

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| **Subject and Exam Board**  | **English Literature Educas**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.  | Component 2 (2 hours 30 minutes)  |
| **Exam content** Overview of topics on the exam  |  Section A: An Inspector Calls Section B: A Christmas Carol  Section C: Unseen Poetry  |
| **Special requirements for exam** e.g calculator   |   None |
| **Revision advice**  |  **Section A** **Read the extract provided and answer the question that follows.** **You are also marked for SPaG on this question: learn the spellings of characters’ names and themes.** Revise: themes, characters and quotes. **Section B** This question provides you with an extract but you must also link it to the novel as a whole - this is where your knowledge of quotations is important. AO1, AO2 and AO3- context! **Revise: characters, themes and quotes.** **Structuring your answers:** Point Evidence Technique Effect Reader response (link to context where applicable) **Section C** You are given **two poems** that you won’t have studied before. You must spend **20 minutes** analysing the **first** poem. Spend **40 minutes** **comparing** the second poem to the first. **Revise: poetic devices.** Structuring your answers: **S** The **start** of the poem (including the title); the intentional **structure.** **M** The **message;** the **mood** and the **meaning.** **I** The **imagery** created; the **ideas** the poet wants you to think about. **L** The **language** and the effect it has on the reader. **E** The **effect** of the poem; the impact of the **ending** on the reader. **S** The **similarities** and differences between the poems.  |
| **Revision resources/Useful websites**  | Revise from blue notebooks and resources. <https://www.bbc.com/bitesize/examspecs/zw9mycw> <https://www.youtube.com/results?search_query=mr+bruff+&safe=active>  www.Smoop.com Seneca learning online courses.  |

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| **Subject and Exam Board**  | **Food Preparation and Nutrition**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.  |  Food Preparation Practical Assessment (3 hours) - 30 marks available  |
| **Exam content** Overview of topics on the exam  | Students will prepare, cook and present a final menu of three dishes to meet the needs of a specific context. Students must select appropriate technical skills and processes and create 3–4 dishes to showcase their skills. Students must work independently, making their own judgements about cooking methods and making changes to recipes to improve palatability.  Students must work safely and hygienically. It is compulsory that students will adhere to food safety principles at all times throughout this assessment.   Students should prepare, cook and present the final dishes, demonstrating: * selection and use of equipment for different technical skills in the preparation and cooking of the final three dishes
* knowledge and application of food safety principles (including temperature control) when storing, preparing, cooking and presenting the final three dishes
* selection, knowledge and use of ingredients when producing different dishes
* appropriate use of the three hours to demonstrate: technical skills, processes and the use of equipment
* execution of a range of technical skills with accuracy
* good judgement with regard to cooking times and methods and the sensory properties of each dish
* organisation and good planning using the time plan and linking tasks within the 3 hours
* a range of finishing techniques to produce a high standard of presentation of the final dishes.
 |
| **Special requirements for exam**  e.g. calculator   |  Ingredients to be provided by the student.  |
| **Revision advice**  |  Students should make full use of BBC Good Food as a starting point to observe their recipes and methods.   All students should ensure they provide ingredients lists and methods for each independent practical to assist with the assessment.  |
| **Revision resources/Useful websites**      | <https://www.bbcgoodfood.com/> <http://allrecipes.co.uk/recipes/> <https://www.jamieoliver.com/recipes/category/course/> <https://www.nigella.com/recipes> <https://www.deliaonline.com/recipes>  |

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| **Subject and** **Exam Board**  | **Geography AQA**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.    |  Paper 1 – Living with the Physical Environment Written exam: 1 hour 30 minutes  * 88 marks (including 3 marks for spelling, punctuation, grammar and specialist terminology (SPaG))
* 35% of GCSE

 * Section A: answer all questions (33 marks)
* Section B: answer all questions (25 marks)
* Section C: answer any two questions from questions 3, 4 and 5 (30 marks)
* Question types: multiple-choice, short answer, levels of response, extended prose
 |
| **Exam content** Overview of topics on the exam  | 3.1.1 The challenge of natural hazards,  3.1.2 The living world,  3.1.3 Physical landscapes in the UK,  3.4 Geographical skills   |
| **Special requirements for exam**  e.g. calculator   |  Calculator allowed     |
| **Revision advice**  |  Revise all topics for paper 1. You do not study Glaciers and Cold environments. Revise case study knowledge Case studies include: Epping Forest Amazon Tropical Rainforest USA Western Desert Boscastle Floods Holderness Coastline New Zealand and Haiti Earthquake Hurricane Sandy Somerset Levels Floods  |
| **Revision resources/Useful websites**      | Senecalearning.com Assignment is set for both 11A&B covering all topics from paper 1. Class Code 11A: mjtp0bdpp5 Class Code 11B: vl6cpjp55r (Class Code in Lower Case)  |

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| **Subject and** **Exam Board**  | **History Edexcel**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.    | Number of exams: 2 Exam topics: **Paper 1: Medicine through time, with Injuries and treatments on the Western Front** * 1 hour 15 minutes
* 52 marks
* 6 questions
* 1 question has SPAG marks (4 available)

**Paper 2: Early Elizabethan England/ Weimar and Nazi Germany** * 1 hour 45 minutes
* Exam paper is split into two separate papers
* Section A: 24 marks, section B 32 marks
* 56 marks overall
* 1 question has SPAG marks (4 available)
 |
| **Exam content** Overview of topics on the exam | * Within **the Medicine through Time exam** you must consider key themes of medicine: ideas of causes, treatments and prevention. There are four timeframes to revise: Medieval (1250-1500), Renaissance (1500-1700), Industrial (1700-1900) and Modern (1900-present day). You must also ensure you revise the section relating to injuries on the Western Front. All of those questions (see section A below) are source questions.
* Within the **Early Elizabethan** paper, you must ensure you have revised the key themes such as government and religion, conflict and society. There will be 3 questions, including a 16 mark + 4 SPAG.
* During the same exam you will also be expected to answer questions relating to **Weimar Germany**, including the early republic, golden years and rise of the Nazi Party.
 |
| **Special requirements for exam** e.g. calculator   | N/A  |
| **Revision advice**  |    **Exam structure: Germany and Elizabethan England**

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| 1  | 4 marks  | Give two things you can infer from Source \_ about…  |
| 2  | 12 marks  | Explain why…  |
| 3  | 8 marks  | How useful are Source \_ and \_ for…  |
| 4a  | 4 marks  | Describe two features of…  |
| 4b  | 12 marks  | Explain why ….   |
| 4c  | 16 marks + 4 SPAG  | “[insert statement]”  How far do you agree? Explain your answer.  |

**Medicine through time and the Western Front**

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| 1  | 4 marks  | Describe two features of…  |
| 2a  | 8 marks  | How useful are Sources \_ and \_ for…  |
| 2b  | 4 marks  | How could you follow up Source \_ to find out more…  |
| 3  | 4 marks  | Explain one way in which…. is different…  |
| 4  | 12 marks  | Explain why …. has changed since…  |
| 5/6  | 16 marks + 4 SPAG  | “[insert statement]”  How far do you agree? Explain your answer.  |

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| **Revision resources/Useful websites**  | You can also access GCSE Pod and GCSE Bitesize as both of these websites have information that will help with your revision   Good luck, remember to only revise the topics relating to the questions. |

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| **Subject and Exam Board**  | **Maths Foundation Edexcel**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.    |  3 x 1.5hr papers One non calculator paper Two calculator papers All papers could include any topic from full GCSE syllabus  |
| **Exam content** Overview of topics on the exam  |  **Algebra** Algebraic terminology ,Cubic and Reciprocal graphs ,Deduce quadratic roots algebraically ,Derive an equation ,Equation of a line ,Expand the product of two binomials ,Factorising quadratic expressions ,Fibonacci, quadratic and simple geometric sequences  ,Graphical solution to equations ,Inequalities on number lines ,Linear equations ,Quadratic graphs ,Reciprocal real-life graphs ,Simplify indices ,Simplify surds ,Solve linear inequalities in one variable ,Writing formulae and expressions ,Changing the subject ,Collecting like terms ,Expressions ,Factorise single bracket ,Finding the equation of a line ,Graphs of linear functions ,Graphs of quadratic functions ,Linear equations one unknown ,Multiplying single brackets ,Non-standard real life graphs ,nth term of a linear sequence ,Number machines ,Substitution ,Using "y = mx + c" ‘Coordinates in four quadrants ‘Plotting straight line graphs ‘Position to term rules ,Sequences of square, triangular and cube numbers ,Using Formulae ,Sequences and Rules  **Geometry and Measures** Arc lengths and sectors ,Derive triangle results ,Enlargements and negative SF ,Loci ,Pythagoras ,Similarity and Congruence ,Standard constructions ,Surface Area ,Trigonometric ratios ,Volume ,Alternate and corresponding angles ,Area of a circle ,Areas of composite shapes ,Areas of triangles, trapezia and parallelograms ,Bearings ,Circle terminology ,Circumference of a circle ,Congruent triangles ,Enlargements and fractional SF ,Perimeter of 2D shapes ,Plans and elevations ,Polygons ,Solve geometrical problems ,Vector arithmetic ,Volume of prisms ,3-D Shapes ,Congruent and similar shapes ,Geometrical terminology and diagrams ,Measuring lines and angles ,Properties of quadrilaterals ,Properties of triangles ,Translations and vectors ,Using standard units **Statistics** Histograms with equal class widths, Scatter graphs, Comparing data using graphs Comparing Distributions, Correlation, Population, Sampling, Scatter Diagrams, Time series, Charts and Diagrams, Pie Charts, Types of data, Vertical Line Charts **Probability** Probability of dependent events, Probability of independent events, Mutually exclusive sum, Relative Frequency, Tables and Grids, Theoretical Probability, Unbiased Samples, Venn Diagrams, Frequency Trees, equally likely outcomes **Number** Calculating with fractions ,Error intervals ,Index Laws ,Limits of accuracy ,Adding and subtracting fractions ,Checking calculations ,Compound measures ,Converting metric units ,Estimation ,Fractions and percentages  ,Fractions and ratio problems ,Interpret calculator displays ,LCM and HCF  ,Multiples and factors ,Multiplying fractions ,Operations ,Order of operations ,Powers  ,Rounding ,Standard Form ,Terminating decimals and fractions ,Decimals ,Listing outcomes ,Prime numbers ,Using standard units ,Add and Subtract integers ,Dividing integers ,Multiplying integers ,Ordering numbers ,Place value **Ratio, Proportion and rates of change**  Compound Units ,Gradient & the rate of change ,Growth and decay ,Interpret Proportion ,Percentage change ,Problems with compound units ,Scale factors and similarity ,Simple Interest and Financial Maths ,Solve Proportion Problems ,Compare Fractions, Decimals and Percentages ,Compare lengths, area, volume  ,Comparing quantities as a ratio ,Division of a quantity as a ratio ,Express one quantity as a % of another ,Percentage change ,Problems involving ratio ,Proportion and ratio ,Ratio and fractions ,Ratio Sharing ,Convert standard units ,Express one quantity as a fraction of another  ,Use ratio notation ,Use scale factors, diagrams and map  |
| **Special requirements for exam** e.g. calculator   | Pen, Pencil, Ruler, Rubber, Protractor, Compass Calculator for paper 2 and 3  |
| **Revision advice**  |  Practice questions see websites for details     |
| **Revision resources/Useful websites**    |  Hegarty Maths BBC bitesize Corbett Maths  |

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| **Subject and Exam Board**  | **Maths Higher Edexcel**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.  |  3 x 1.5hr papers One non calculator paper Two calculator papers All papers could include any topic from full GCSE syllabus  |
| **Exam content** Overview of topics on the exam  |   **Algebra** Approximate solutions to equations using iteration, Equation of a circle ,Equation of a tangent  ,Algebra and Proof ,Gradients and area under a graph ,Graphs of trigonometric functions ,Quadratic equations (completing the square) ,Composite functions ,Expand the product of two or more binomials ,Factorising difficult quadratic expressions ,Geometric Sequences ,Graphs of exponential functions ,Quadratic equations (needing re-arrangement) ,Quadratic equations (quadratic formula) ,Real-life exponential graphs ,Represent quadratic inequalities ,Simultaneous equations (non-linear), Solve quadratic inequalities, Translations and reflections of a function ,Turning points & completing the square ,Algebraic fractions, Identifying parallel lines ,Inverse functions ,Linear inequalities in two variables ,nth term of a quadratic sequence ,Quadratic equations (factorisation) ,Title ,Quadratic equations (graphical methods) ,Represent linear inequalities ,Simultaneous equations (linear) ,Algebraic argument ,Algebraic terminology ,Cubic and Reciprocal graphs ,Deduce quadratic roots algebraically ,Derive an equation ,Equation of a line ,Expand the product of two binomials ,Factorising quadratic expressions Fibonacci, quadratic and simple geometric sequences  ,Graphical solution to equations ,inequalities on number lines ,Linear equations ,Quadratic graphs ,Reciprocal real-life graphs ,Simplify indices ,Simplify surds ,Solve linear inequalities in one variable ,Writing formulae and expressions ,Changing the subject ,Collecting like terms ,Expressions ,Factorise single bracket ,Finding the equation of a line ,Graphs of linear functions ,Graphs of quadratic functions ,Linear equations one unknown ,Multiplying single brackets ,Non-standard real life graphs ,nth term of a linear sequence ,Number machines Substitution, Using "y = mx + c"  **Geometry and Measures** Circle theorems, Vector arguments and proof, Area of a triangle, Cosine Rule, Pythagoras and trig 2D and 3D, Sine Rule, Combined transformations Congruence and Similarity, Standard trigonometric ratios, Arc lengths and sectors, Derive triangle results, Enlargements and negative SF, Loci, Pythagoras, Similarity and Congruence, Standard constructions Surface Area, Trigonometric ratios, Volume, Alternate and corresponding angles, Area of a circle, Areas of composite shapes, Areas of triangles, trapezia and parallelograms, Bearings, Circle terminology, Circumference of a circle Congruent triangles, Enlargements and fractional SF, Perimeter of 2D shapes Plans and elevations, Polygons, Solve geometrical problems,Vector arithmetic, Volume of prisms  **Statistics** Boxplots, Cumulative frequency, Histograms with unequal class widths, Quartiles and Interquartile Range, Histograms with equal class widths Scatter graphs, Comparing data using graphs, Comparing Distributions Correlation, Population, Sampling, Scatter Diagrams, Time series  **Probability** Conditional Probability, Probability of dependent events, Probability of independent events, Mutually exclusive sum, elative Frequency, Tables and Grids, Theoretical Probability, Unbiased Samples, Venn Diagrams  **Number** Surds, Index Laws (negative and fractional), Product rule, Recurring Decimals Upper and lower bounds, Finance 1, Powers and Roots, Product of prime factors, Using Pi, Calculating with fractions, Error intervals, Index Laws Limits of accuracy, Adding and subtracting fractions, Checking calculations Compound measures, Converting metric units, Estimation, Fractions and percentages, Fractions and ratio problems, Interpret calculator displays LCM and HCF, Multiples and factors, Multiplying fractions, Operations, Order of operations, Powers, Rounding, Standard Form, Terminating decimals and fractions   **Ratio, Proportion and rates of change** Gradients and the rate of change, General iterative processes, Direct and inverse proportion, Compound Units, Gradient & the rate of change Growth and decay, Interpret Proportion, Percentage change, Problems with compound units, Scale factors and similarity, Simple Interest and Financial Maths, Solve Proportion Problems, Compare Fractions, Decimals and Percentages, Compare lengths, area, volume Comparing quantities as a ratio Division of a quantity as a ratio, Express one quantity as a % of another Percentage change, Problems involving ratio, Proportion and ratio, Ratio and fractions, Ratio Sharing   |
| **Special requirements for exam**  e.g. calculator   |  Pen, Pencil, Ruler, Rubber, Protractor, Compass Calculator for paper 2 and 3   |
| **Revision advice**  |  Practice questions see websites for details    |
| **Revision resources/Useful websites**        |  Hegarty maths BBC bitesize Corbett Maths   |

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| **Subject and Exam Board**  | **Physical Education** **OCR**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.    | 1 hour written paper   |
| **Exam content** Overview of topics on the exam  |  **1.1.a. The structure and function of the skeletal system**  Location of major bones  Functions of the skeleton  Types of synovial joint  Types of movement at hinge joints and ball and socket joints  Other components of joints  **1.1.b. The structure and function of the muscular system**  Location of major muscle groups  The roles of muscle in movement  **1.1.c. Movement analysis**  Lever systems  Planes of movement and axes of rotation  **1.1.d. The cardiovascular and respiratory systems**  Structure and function of the cardiovascular system  Structure and function of the respiratory system  Aerobic and anaerobic exercise  **1.1.e. Effects of exercise on body systems**  Short-term effects of exercise  Long-term (training) effects of exercise  **Physical training**  **1.2.a. Components of fitness**  Components of fitness  **1.2.b. Applying the principles of training**  Principles of training  Optimising training  **1.3.c. Preventing injury in physical activity and training**  Prevention of injury  |
| **Special requirements for exam** e.g. calculator   |  None |
| **Revision advice**  |  Within the 23 questions, a 6-mark question will be on the exam towards the end of the paper a breakdown for the 6-mark question is as followed: * Introduction
* Paragraph 1
* Paragraph 2
* Paragraph 3
* Conclusion
 |
| **Revision resources/Useful websites**      |  BBC Bitesize: <https://www.bbc.com/bitesize/examspecs/ztrcg82> OCR Physical Education: <https://www.ocr.org.uk/qualifications/gcse/physical-education-j587-from-2016/> Use the worksheets and revision tools on the pen drives provided.  |

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| **Subject** **and** **Exam Board** | **Religious Studies** **Edexcel** |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.    | **2 papers*** Paper 1: Christianity - 1 hour 45 Mins, divided into four sections: Belief, Marriage and Family, Life and Death, Living the Christian life. Each section has four questions -  a,b,c and d, and is worth 24 marks.
* Paper2: Islam - 30 Mins. One section only: Muslim beliefs. This section has four questions – a,b,c and d, and is worth 24 marks.
 |
| **Exam content** Overview of topics on the exam  | **Christianity.*** Belief - The nature of God; The trinity; Creation and divergent attitudes to creation; The incarnation; The last days of Jesus’s life; Salvation (and atonement); Eschatology; The problem of evil; Divergent responses to the problem of evil

  * Marriage and Family - Changing nature of family life; homosexuality; marriage; divorce; contraception

  * Life and death – What happens when we die; Christian beliefs in life after death; Abortion; Euthanasia; Threats to the natural world

  * Living the Christian life – Liturgical and non-liturgical worship; Prayer; Pilgrimage; The future of the church;

  **Islam.** * Belief - Shia and Sunni Muslims; The six beliefs; The five roots; The nature of Allah; The five pillars of Islam

  |
| **Special requirements for the exam**  e.g. calculator   |  No special requirements  |
| **Revision advice**  |   It is advised to use the revision guide provided in class; learn Sources of Authority; be mindful of the type of question you are answering (a,b,c and d), and the format for answering each type of question. Remember to use ‘PEEDAL’ for each paragraph in your ‘d’ question.     |
| **Revision resources/Useful websites**  |  Yr. 10 GCSE revision guide; revision questions  |

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| **Subject and Exam Board**  | **Science Double Award - Biology AQA**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.  | * 1 hr. 15 min paper each

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| **Exam content** Overview of topics on the exam  |  **Biology** **Homeostasis and response** * Nervous system
* Synapse and reflex
* Investigating reaction time
* The reproductive hormones
* Controlling blood glucose
* Puberty and the Menstrual cycle
* Controlling fertility
* Adrenaline and Thyroxine

**Inheritance variation and Evolution** * DNA
* Reproduction
* Meiosis
* X and Y chromosomes
* Genetic diagrams
* Inherited disorders
* Variation
* Evolution
* Selective breeding
* Genetic engineering
* Fossils
* Antibiotic resistance
* Classification

**Ecology** * Competition in plants and animals
* Abiotic and biotic factors
* Adaptations
* Food chains
* Quadrats and transects
* Water cycle
* Carbon cycle
* Biodiversity and waste management
* Global warming
* Deforestation
* Maintaining biodiversity

    |
| **Special requirements for exam**  e.g. calculator   |  Calculator, 30cm ruler, black pen, pencil.   |
| **Revision advice**  |  Biology- Paper 2 content (See year 10 and 11 class book). Make revision flash cards on topics of weakness. Set your own questions on Educake- topic specific e.g cells, forces, chemical changes etc.   Plan your revision time, do a little each day. Break revision up into small chunks, take regular short breaks. Make notes from textbook and class work. Summarise/condense notes repeatedly, try using revision cards and mind maps.  Use You Tube revision Free Science lessons and BBC bitesize which is new and updated  |
| **Revision resources/Useful websites**              |  Educake set your own questions. BBC Bitesize science, GCSE Combined science, AQA Trilogy, physics, biology, chemistry papers  <https://www.bbc.co.uk/bitesize/topics/zyybb82> <https://www.bbc.co.uk/bitesize/topics/zppffcw> <https://www.bbc.co.uk/bitesize/topics/zxxhh39>  [The Whole of AQA Biology Paper 2. B2. 9-1 GCSE science revision](https://www.youtube.com/watch?v=Uqti-xPnT-8)  |

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| **Subject and Exam Board**  | **Science Double Award - Chemistry AQA**   |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.  |  1 hr. 15 min paper each   |
| **Exam content** Overview of topics on the exam  |  The rate and extent of chemical change   * Rates of reaction
* Factors affecting Rates of Reaction
* Measuring Rates of reaction – 3 ways
* Experiment Magnesium and HCL
* Experiment Sodium Thiosulfate and HCl – cloudy precipitate
* Finding reaction rates from graphs
* Reversible reactions
* Le Chatelier's Principle

 Organic Chemistry  * Hydrocarbons
* Fractional Distillation
* Uses and cracking of crude oil

 Chemical Analysis  * Purity and formulations
* Paper Chromatography
* Tests for gases

 Chemistry of the Atmosphere  * The evolution of the Atmosphere
* Greenhouse gases and climate change
* Carbon Footprints
* Air pollution
 |
| **Special requirements for exam**  e.g. calculator   |  Calculator, 30cm ruler, black pen, pencil.   |
| **Revision advice**  | * Chemistry- paper 2 content (See year 10 class book).
* Make revision flash cards on topics of weakness.
* Review past paper- end of year 10 and practice mock paper- when complete and handed back.
* Set your own questions on Educake- topic specific e.g cells, forces, chemical changes etc.

  Plan your revision time, do a little each day. Break revision up into small chunks, take regular short breaks. Make notes from textbook and class work. Summarise/condense notes repeatedly, try using revision cards and mind maps.  Make sure you learn the equations and units you need to know for each paper by heart.  |
| **Revision resources/Useful websites**      |  Educake set your own questions. BBC Bitesize science, GCSE Combined science, AQA Trilogy, physics, biology, chemistry papers [www.senecalearning.com](http://www.senecalearning.com)   |

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| **Subject and Exam Board** | **Science Double Award - Physics AQA**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc. |  1 hr. 15 min paper each   |
| **Exam content** Overview of topics on the exam  |  **Physics-** **FORCES** * Scalars and vectors
* Contact and non-contact forces
* Weight, mass, gravity
* Resultant forces- calculations.
* Forces and elasticity/investigating springs/Hooke’s Law
* Distance time graphs
* Velocity time graphs
* Acceleration
* Calculating speed
* Terminal velocity
* Newton’s Laws 1,2,3
* Stopping distances
* Reaction time
* Momentum-HIGHER ONLY

**Waves** Transverse and Longitudinal waves * Wave labels- amplitude, wavelength, resting position/equilibrium, peak, trough
* Reflection
* Refraction
* Electromagnetic spectrum- wave types, Uses, order of spectrum.
* Wave speed equation
* Infra-red radiation- required practical- effect of colour on emitted infra-red (silver and black tubes)

**Magnetism /Electromagnetism** * Permanent and induced magnets
* Electromagnetism
* Motor Effect-HIGHER ONLY
 |
| **Special requirements for exam** e.g. calculator   |  Calculator, 30cm ruler, black pen, pencil.  |
| **Revision advice**  | * Physics Paper 2 content (See year 10 class book).
* Make revision flash cards on topics of weakness.
* Review past paper- end of year 10 and practice mock paper- when complete and handed back.
* Set your own questions on Educake- topic specific e.g. cells, forces, chemical changes etc.
* Plan your revision time, do a little each day. Break revision up into small chunks, take regular short breaks. Make notes from textbook and class work. Summarise/condense notes repeatedly, try using revision cards and mind maps.
* Make sure you learn the equations and units you need to know for each paper by heart.
 |
| **Revision resources/Useful websites**     | Educake set your own questions. BBC Bitesize science, GCSE Combined science, AQA Trilogy, physics, biology, chemistry papers [www.senecalearning.com](http://www.senecalearning.com)  |

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| **Subject and Exam Board**  | **SPANISH EDEXCEL**  |
| **Exam format** Number of papers, length of papers, number of sections, marks available etc.    | Four exam papers based on the skills of listening, speaking, reading and writing. Each paper draws on vocabulary from all themes and topics listed above and all papers are worth 25% each.   **Paper 1 Listening** **Foundation tier: 35 minutes including 5 minutes reading time; 50 marks** Section A instructions are in English Section B instructions are in Spanish  **Higher Tier: 45 minutes including 5 minutes reading time; 50 marks** Section A instructions are in Spanish Section B instructions are in English   **Paper 2 Speaking** **Foundation tier: 7-9 minutes plus 12 minutes preparation time; 70 marks** **Higher tier: 10-12 minutes plus 12 minutes preparation time; 70 marks**   There are three tasks for both tiers. Task 1 – a role play  Task 2 – questions based on a photo Task 3 – conversation based on two themes. You can choose the first theme in advance; the second theme will be a ‘surprise.’   **Paper 3 Reading** **Foundation tier: 45 minutes; 50 marks** **Higher tier: 1 hour; 50 marks** Section A - answer in English Section B - answer in Spanish Section C - translation task from Spanish to English   **Paper 4 Writing** **Foundation tier: 1 hour 10 minutes; 60 marks** Question one – write 20-30 words to describe a photo. Question two – write 40-50 words in Spanish Question three – **choose either 3a or 3b** and write 80-90 words in Spanish Question four – translation into Spanish **Higher tier:  1 hour 20 minutes; 60 marks** Question one – **choose either 1a or 1b** and write 80-90 words in Spanish Question two – **choose either 2a or 2b** and write 130-150 words in Spanish Question three – translation into Spanish     |
| **Exam content** Overview of topics on the exam  |   The course is made up of several topics (e.g. holidays, environment), which are grouped into five **themes:** * **Theme 1 Identity and culture** (module 3 relationships, module 4 free time, module 6 food, festivals and culture)
* **Theme 2 Local area, holiday and travel** (module 1 holidays, module 5 where you live)
* **Theme 3 School** (module 2 school life)
* **Theme 4 Future aspirations, study and work** (module 7 future plans and work)

**Theme 5 International and global dimension** (module 8 environment and global issues)  |
| **Special requirements for exam**  e.g. calculator   |   none |
| **Revision advice**  |  Revise modules 1-6 (Holidays, school, relationships, free time, where you live and food and culture) on Memrise. There will be questions on module 7 and 8 so if you get that far on Memrise that will be very useful for you. Remember to do a little and often. You can’t just revise for languages the day/week before. Repetition is key to help you to learn!   Remember AVOCADOS for to add detail in speaking and writing. A-Adjectives V-Verbs (at least past, present and future) O -Opinions C- Connectives A-Adverbs D- Detail O- Oh my gosh fancy phrases! S- Sequencers  Remember PALMOJ for speaking / the photo card P – people A – actions L – location M – mood O – opinion J - Justification  Attend speaking practice revision sessions on Monday after school with your flashcards  |
| **Revision resources/Useful websites**              | * Revision guides – especially if you have the listening CD
* Past papers: <https://qualifications.pearson.com/en/support/support-topics/exams/past-papers.html>
* Your speaking flashcards
* Revision resources on the Homework drive
* Role-play booklet
* [www.memrise.com](http://www.memrise.com/)
* [www.legacy.language-gym.com](http://www.legacy.language-gym.com)
* GCSE bitesize
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**College Open Days 2018 - 2019**

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|  | **SATURDAY 21ST SEPTEMBER – 11AM – 3PM****THURSDAY 10TH OCTOBER 4PM – 8PM****TUESDAY 19TH NOVEMBER 4PM – 8PM****WEDNESDAY 4TH MARCH 4PM – 8PM****www.runshaw.ac.uk****01772 622677** |
|  | **SATURDAY 12TH OCTOBER 10AM - 1PM****SATURDAY 16TH NOVEMBER 10AM - 1PM****SATURDAY 1ST FEBRUARY 10AM - 1PM**[**www.cardinalnewman.ac.uk**](http://www.cardinalnewman.ac.uk)**01772 460181** |
|  | **TUESDAY 1ST OCTOBER 4- 7.30PM****SATURDAY 2ND NOVEMBER 10AM-2PM****WEDNESDAY 11 MARCH 4PM – 7.30PM**[**www.preston.ac.uk**](http://www.preston.ac.uk)**01772 225522** |

**GCSE KEY MESSAGES:**

* Make the most of lesson time
* Raise your aspirations – personal best
* Follow up on issues / pursuit of excellence
* Full effort in homework and non-examination assessments
* Importance of each GCSE grade
* Learning how to revise effectively
* Use any access arrangements to your advantage
* Work/life balance; Plan ahead