

Summer Activity Booklet

Welcome to Year 10!

This booklet is designed to help you in your transition to Key Stage 4, providing you with activities to carry out over the holidays to help you get ready for the step up to GCSE and BTEC level study.

Each subject has provided you with helpful information and activities to carry out in readiness for your return to school – the contents page below outlines where you need to look.

**Remember – you only have to carry out the tasks for the subjects that you will be taking!**

There is no expectation for you to spend all summer on this – as you have 3 extra INSET days, the work you need to carry out should not take you any longer than the lesson time you would have on those days.

**Contents Pages**

Art, Craft and Design – 3

Business – 4

Computer Science – 5-6

Engineering Design - 7

English Language and Literature – 8-9

Food Technology - 10

Geography – 11-12

Health and Social Care - 13

History - 14

Imedia - 15

Mathematics - 16

Further Mathematics - 17

Music – 18-19

RE (short course) - 20

RE (full course) - 21

|  |
| --- |
| **Course: GCSE Art Craft & Design** |
| **Useful links** |
| Exam board website: <https://www.aqa.org.uk/subjects/art-and-design/gcse/art-and-design-8201-8206/specification-at-a-glance>  This website will give you access to the exam specifications so that you know what you will be assessed on.  Component 2 questions are published in January of year 11 and are different each year.  BBC Bitesize: <https://www.bbc.co.uk/bitesize/guides/zgtngdm/revision/1>  This is a page providing helpful information about why annotation is a critical part of the course and how to complete it.  BBC Bitesize <https://www.bbc.co.uk/bitesize/guides/zpcndxs/revision/2>  This page provides you with the assessment criterial for all boards, we are working to the AQA specification  BBC Bitesize <https://www.bbc.co.uk/bitesize/guides/z2hp3k7/revision/4>  This page provides your with information about completing artists studies |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | Introduction to Course structure  Exploration of mechanical forms through drawing in a range of media.  Print making techniques.  Presentation techniques for annotation of work in sketch books | Completing Artist study  Continued exploration of techniques linking to mechanical forms.  Building reliefs  Working in clay  Working in textiles. | Exploration of natural form through drawing and photography techniques  Development of proposals for a homeware product | Completion of proposal for a homeware product  Realization of a homeware outcomes in textiles, clay, or mixed media.  Reflection and evaluation on success of outcome | Exploration of cultural influences through draw and photography techniques  Development of proposals for a piece of jewellery or garment | Completion of proposal for a piece of jewellery or garment  Realization of an outcome in the form of a piece of jewellery or garment.  Reflection and evaluation on success of outcome | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  Task 1  Reflect on Peter Blake’s Museum of Everything and create a response.  To begin this process watch this video of Peter Blake talking about his exhibition in 2010 <https://www.youtube.com/watch?v=tGYuE5KJhfg> Peter explains why he started collecting toys and how the exhibition evolved.  Task 2  Collect a group of small objects that describes something about your summer.  You then need to write a description of your collection explaining your selection of the objects, what the viewer is seeing and how it sums up your summer. Your description needs to be between 50 and 100 words. Your piece needs to be titled. |
| **Course: GCSE Business** |
| **Useful links** |
| Exam board website: <https://www.ocr.org.uk/qualifications/gcse/business-j204-from-2017/>  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  BBC Bitesize: [www.bbc.co.uk/bitesize/examspecs/zhrphbk](http://www.bbc.co.uk/bitesize/examspecs/zhrphbk)  This is a page specifically set up to give helpful support for the OCR Business GCSE and breaks the main topics in to helpful chunks with mini assessments that you can carry out.  Useful resources and study guides: [www.hoddereducation.co.uk/business/gcse/ocr](http://www.hoddereducation.co.uk/business/gcse/ocr)  Seneca Learning: [www.senecalearning.com/en-GB/blog/gcse-business-revision/](http://www.senecalearning.com/en-GB/blog/gcse-business-revision/)  A useful website that provides information and videos to support studying and revision. |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | The role of business enterprise and entrepreneurship.  Business planning.  Revenue, costs, profit and loss.  Business ownership.  Business aims and objectives. | Stakeholders in business.  Business growth.  The role of marketing.  Market research.  Market segmentation. | The marketing mix  The role of human resources (HR) | Organisational structures and different ways of working  Communication in business  Recruitment and selection | Motivation and retention  Training and development  Employment law | Production processes  Quality of goods and services | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  Task 1 - Find the meaning of the following terms that we will use in our lessons:  Entrepreneur  Enterprise  Case-study  Marketing  Finance  Task 2 – Take a successful business of your choice (Nike, Teslar, Virgin, Apple are examples if you are stuck) and research why it is a successful business model. Create a mindmap that outlines your findings ready for your first lesson in Y10. |

|  |
| --- |
| **Course: GCSE Computer Science** |
| **Useful links** |
| Exam board website: https://www.ocr.org.uk/qualifications/gcse/computer-science-j277-from-2020/  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  BBC Bitesize: https://www.bbc.co.uk/bitesize/examspecs/zmtchbk  This is a page specifically set up to give helpful support for the OCR Computer Science GCSE and breaks the main topics in to helpful chunks with mini assessments that you can carry out.  Youtube Craig ‘n’ Dave: <https://www.youtube.com/c/craigndave/playlists?view=50&sort=dd&shelf_id=3>  This playlist of videos covers the full J277 Specification with clear and easy to follow videos. Definitely worth subscribing.  Seneca Learning: <https://app.senecalearning.com/classroom/course/a1ce4570-6e27-11e8-af4b-35cf52f905c2>  A useful website that provides information and videos to support studying and revision. |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | Unit 1:   * Architecture of the CPU * CPU Performance * Memory * Secondary Storage   Unit 6:   * Computational Thinking. * Searching and Sorting Algorithms. * Pseudocode and Flowcharts. * Interpreting Algorithms. | Unit 2:   * Units and binary numbers * Binary arithmetic and hexadecimal * Characters * Images * Sound * compression   Unit 7:   * Programming Fundamentals * Sequence and Selection * Iteration * Arrays * Procedures and functions * Records and files * Introduction to SQL | Unit 3:   * The internet and wide area networks * Local Area Networks * Wireless Networking * Client-Server and P2P networks * Standards, Protocols and Layers   Unit 4:   * Network Threats * Preventing Vulnerabilities * Operating Systems * Utility Software | Unit 5:   * Ethical and Cultural Issues * Environmental Issues * Legislation and privacy | Unit 8:   * Logic Diagrams and truth Tables * Defensive design * Error and testing * Translators and facilities * IDEs | Programming Project | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  Task 1 – Find out how the following common characteristics of CPUs affect their performance:  o Clock speed  o Cache size  o Number of cores  Task 2 – Identify the difference between Primary and Secondary Storage answering the following questions:  Why do computers have primary storage?  What does primary storage normally consists of?  What are the key characteristics of Primary Storage components  What is Virtual memory and why virtual memory may be needed in a system?  How does virtual memory work?  How is data transferred between primary and secondary storage when primary storage is filled?  Why computers have secondary storage  Identify a range of secondary storage devices/media  Describe the differences between each type of storage device/medium  Compare advantages/disadvantages for each storage device |

|  |
| --- |
| **Course: GCSE Drama (Eduqas)** |
| **Useful links** |
| Exam board website: https://www.eduqas.co.uk/qualifications/drama-gcse/#tab\_overview    This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  BBC Bitesize: <https://www.bbc.co.uk/bitesize/examspecs/zdb6xyc>  This is a page specifically set up to give helpful support for the Eduqas GCSE Drama and breaks the main topics in to helpful chunks with mini assessments that you can carry out.  The course is split into three components; performing, devising and understanding drama.  There is a link to a narrated PowerPoint detailing component 3 here:  <https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rIid=1527> |
| **Summer Holiday Preparation Task** |
| 1. What does drama mean to you? Please write your response to this question, including why you have chosen this subject and bring it to our first session in September. 2. Research and explore some of the following practitioners and theatre companies. Choose two and create a presentation about the aims and intentions of the practitioner as well as their stylistic choices.  * Konstantin Stanislavski * Bertolt Brecht * Steven Berkoff * Antonin Artaud * DV8  1. Who is your favourite actor? Answer this question detailing why you have made this choice. |
| **Course: OCR National Engineering Design** |
| **Useful links** |
| Exam board website: <https://www.ocr.org.uk/qualifications/cambridge-nationals/engineering-design-level-1-2-award-certificate-j831-j841/specification-at-a-glance/>  A useful website for revision: <https://www.technologystudent.com/>  BBC Bitesize - OCR Design Engineering: <https://www.bbc.co.uk/bitesize/guides/zh4g4qt/revision/1>  Disassembly video link: <https://www.youtube.com/watch?list=RDCMUCpRCG3gGtWqieJe-LGmi93w&v=Y0h6eGrwVKQ&feature=emb_rel_end> |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | **UNIT R107: Developing and presenting engineering designs**  CAD- 2D design, Fusion 360, Onshape  Focus practical tasks linking to drawing skills | **UNIT R107: Developing and presenting engineering designs**  **Submit Jan**  CAD- 2D design, fusion 360, Onshape  Focus practical tasks linking to drawing skills | **UNIT R105:**  **Design Briefs, design specifications and user requirements**  Theory content delivered through practical experiences | **UNIT R105:**  **Design Briefs, design specifications and user requirements**  Theory content delivered through practical experiences | **UNIT R105:**  **Design Briefs, design specifications and user requirements Papers Sit May**  Theory content delivered through practical experiences | **UNIT R106: Product analysis and research**  Disassembly of Bluetooth speakers  Product analysis of speakers currently on the market | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  Watch the disassembly video in the useful links section above.  Task 1: Have a look for a product you could take apart, an LED torch - (such as a camping torch or Maglite). Alternatively you could choose a product such as the water pistol shown in the disassembly video.  Disassemble (take apart) the product and lay out each component.  Task 2: Draw each component of the torch and label the name and material of each part.  You might have to research this information. Try looking on the manufacturer’s website for this information.  Put the product back together and draw the assembled product in 3D.  Alternatively, if you don’t have access to a product you could take apart:  Find an image online of a disassembled torch and draw the components. Add labels to your drawing. Also draw the assembled product in 3D.  Bring your drawing to the first Engineering lesson with Mr Fridlington. |

|  |
| --- |
| **Course: GCSE English Literature and GCSE English Language** |
| **Useful links** |
| **Exam board website Literature**: <https://www.aqa.org.uk/subjects/english/gcse/english-literature-8702>  **Exam board website Language**: <https://www.aqa.org.uk/subjects/english/gcse/english-language-8700>  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  **BBC Bitesize (Literature):** <https://www.bbc.co.uk/bitesize/examspecs/zxqncwx>  **BBC Bitesize (Language):** <https://www.bbc.co.uk/bitesize/subjects/zr9d7ty>  The BBC provide a comprehensive resource for all aspects of the GCSE courses in literature and language. Check the table for below for the exact texts you will cover in both English GCSEs.  **Studywise:**  <https://studywise.co.uk/gcse-revision/english-language/>  <https://studywise.co.uk/gcse-revision/english-literature/>  A great website that acts as a ‘hub’ for a wide range of GCSE English revision resources. |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 **(Lit)** | Autumn 2 **(Lang)** | Spring 1 **(Lit)** | Spring 2 **(Lang)** | Summer 1 **(Lang)** | Summer 2 **(Lang)** | | **English Literature Paper 1 – 19th century Novel – The Strange Case of Dr Jekyll and Mr Hyde**  **Summary:**  Pupils will study this 19th Century novella on preparation for their GCSE Language exam. | **English Language: Paper 1:** **Section A**  **Explorations in Creative Reading**  **Summary:**  Pupils will study a range of un-seen extracts. | **English Literature Paper 1:** **Shakespeare - Romeo & Juliet**  **Summary:**  Pupils will study this as their Shakespearean text for the Literature exam. | **English Language Paper 1:** **Section B**  **Explorations in Creative Writing**  **Summary:**  Pupils will prepare for a descriptive and narrative piece of writing. | **English Language Paper 2: Section A**  **Viewpoints and Perspectives –Reading**  **Summary:**  Pupils will study a range of un-seen extracts. | **Spoken Language (non-examination unit)**  **Summary:**  Pupils will prepare for a non-examination, but compulsory assessment for their GCSE Language qualification | |
| **Summer Holiday Preparation Task** |
| **Task 1: English Literature (HT1)**  You will be asked to complete a task on one of the themes studied in ‘The Strange Case of Dr Jekyll and Mr Hyde’  This link from Bitesize might be a useful start: <https://www.bbc.co.uk/bitesize/guides/z92trdm/revision/3>  There is also a resource on 9X Teams/English/Summer transition tasks -**Dualism in the Victorian Era**, that you can access to help you complete the following research:   * What does the theme of duality state that every person had? * How did London change as a place during the Victorian era? * Why were men often the subject of duality? * Why was London a great setting to discuss duality * How specifically does Dr Jekyll/Mr Hyde demonstrate duality as a character?   If you struggle to answer some of the questions specifically you can always put together a fact sheet, PPT or plan a small presentation on the theme of duality using your own research and resources (feel free to complete your own research on this theme using the links provided above).  **Task 2:** Your first studied text is The Strange Case of Dr Jekyll and Mr Hyde. You will be provided a copy in class, but I would always recommend that you have your own copy for home study purposes. Reading the text would be a great start to Year 10. Even if this wasn’t possible reading a synopsis of the text so that you are familiar with the tale would be a great help.  <https://www.bbc.co.uk/bitesize/guides/z88wjxs/revision/1>  As an extra preparatory task you could produce a storyboard of the main events for reference in lessons. Here are some ideas to get you started:  <https://www.storyboardthat.com/storyboards/kristy-littlehale/plot-diagram-for-dr--jekyll-and-mr--hyde> |

|  |
| --- |
| **Course: GCSE Food Preparation and Nutrition** |
| **Useful links** |
| Exam board website: <https://www.aqa.org.uk/subjects/food/gcse/food-preparation-and-nutrition-8585/specification-at-a-glance> This website will allow you to look at how the course is assessed and areas of study over the two years.  <https://www.cgpbooks.co.uk/secondary-books/gcse/design-technology/food-prep-nutrition> A link to useful books and resources for the course.  <https://www.foodafactoflife.org.uk/14-16-years/> Free resources, information packs and quizzes.  <https://www.youtube.com/playlist?list=PLXVl8Mt9AJ_qlI4FVE41vterGuB87YZT1> GCSE Food Preparation and Nutrition- Youtube playlist |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | **Carbohydrates and pastry**  Types of carbohydrates  Function of carbohydrates in the diet.  Puff, choux and shortcrust pastry practical.  **Future chef competition** | **Presentation and garnish**  KS4 knife skills  Presentation of savoury and sweet dishes.  **Food Safety and food poisoning**  Micro-organisms and enzymes  Signs of food spoilage  Bacterial contamination | **Nutrition**  Nutrients  Energy needs  Nutritional analysis  Eatwell guide | **Dietary related illness**  The big 6: obesity, heart disease, bone health, dental health, anaemia and diabetes.  **Factors affecting food choice**  Lifestyles  Cost  Availability  Seasonality  Religious diets | **Food Science**  Cooking of food and heat transfer  Functional and chemical properties of food | **Food Science mock**  NEA 1 mock | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  Task 1: Watch the following food presentation videos.  <https://www.youtube.com/watch?v=YkW11oOGTVg>  <https://www.youtube.com/watch?v=r2tuI8uyzA8>  Task 2: When we return to school we will be making 3 different types of pastry. Using the food presentation videos, have a go at making a shortcrust pastry dish, plate up and take a picture! The dish can be sweet or savory. BBC Good Food have some great recipes!  Alternatively, if you don’t have access to ingredients:  Produce a mood board with lots of pictures that you think show excellent food presentation. This can be done on the computer or using old magazines. |

|  |
| --- |
| **Course: GCSE Geography** |
| **Useful links** |
| Exam board website: <https://www.aqa.org.uk/subjects/geography/gcse/geography-8035/specification-at-a-glance>  This website will give you access to the exam specification and subject content so that you know what you will be assessed on.  **BBC bitesize** offers support and revision for AQA Geography GCSE <https://www.bbc.co.uk/bitesize/examspecs/zy3ptyc>  **The Royal Geographical Society:** The society have a range of podcasts and resources that support GCSE case studies. Learn more about the Jurassic coastline in this podcast <https://www.rgs.org/schools/teaching-resources/dr-anjana-khatwa-and-the-unesco-world-heritage-jur/>  **Seneca Learning:** <https://senecalearning.com/en-GB/seneca-certified-resources/geography-gcse-aqa/>  A useful online website that provides information and videos to support studying and revision.  Map skills are a fundamental part of geography. Use the links below to help you practice reading 4 and 6 figure grid references and measure distance on maps.  Map reading <https://getoutside.ordnancesurvey.co.uk/guides/beginners-guides-map-reading/>  Measuring distance <https://www.youtube.com/watch?v=xy8AwA3qSB0> |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | **Physical landscapes of the UK**  Overview of major upland / lowland areas  River processes  River landforms  River management | **Physical landscapes of the UK**  Coastal processes  Coastal landforms  Coastal management | **Urban Issues and Challenges**  Patterns of urban change  Emergence of megacities  Urban growth in LICs and NEEs | **Urban Issues and Challenges**  Urban change in cities in HICs  Urban sustainability | **The living world**  Global biomes and ecosystems  Local UK ecosystems  Tropical Rainforests   * Characteritics * Biodiversity * Deforestation * Sustainable management   **Fieldwork**  Physical and human geography fieldwork | **The living world**  Hot desert ecosystems  Opportunities and challenges in hot deserts  Causes of desertification  Management strategies to reduce the effects of desertification | |
| **Summer Holiday Preparation Task** |
| We start Year 10 looking at physical landscapes of the UK. Use the map on the next page to answer the following questions and prepare for the start of the course:   1. The line from the mouth of the River Exe to the mouth of the River Tees separates upland Britain (to the north west) from lowland Britain (to the south east). Use the scale on the map to measure the straight line distance between the mouths of these 2 rivers 2. Give the latitude and longitude for the mouth of the River Tweed (***Hint:*** *latitude first, then longitude – the opposite to reading an OS map)* 3. Working from north to south, name the upland areas that 4ON goes through 4. Using an online map, locate and label the following cities on your map: Belfast, Birmingham, Bradford, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, London, Manchester, Newcastle upon Tyne, Sheffield, Southampton. |

|  |
| --- |
| **Course: BTEC Health and Social Care** |
| **Useful links** |
| Exam board website: <https://qualifications.pearson.com/en/qualifications/btec-tech-awards/health-and-social-care.html> This website will allow you to look at how the course is assessed and areas of study over the two years.  <https://www.bbc.co.uk/bitesize/guides/zxj87hv/revision/1> BBC bitesize |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | Understand human growth and development across life stages and the factors that affect it. | Investigate how individuals deal with life events.  Physical, relationship changes and life circumstances. | Coping with change caused by life events.  Understand the different types of health and social care services and barriers to accessing them. | Understand the different types of health and social care services and barriers to accessing them.  Demonstrate care values and review own practice. | Factors that affect health and wellbeing.  Interpreting health indicators including, blood pressure, BMI and lifestyle data. | Person- centred health and wellbeing improvement plans. | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  **Task one**: Watch the following video clips and list the qualities you need for each job role.  <https://www.youtube.com/watch?v=KygCDj_AkUo>  <https://www.youtube.com/watch?v=-6D4qerdHrY>  <https://www.youtube.com/watch?v=KVBL888qNhM>  **Task two: Life Stages**  Draw a timeline to illustrate your own life. What developmental changes have you experienced so far? What changes do you expect in the future?  <https://www.youtube.com/watch?v=dLuEY6jN6gY> |

|  |
| --- |
| **Course: GCSE History. AQA Exam Board. Course Code 8145** |
| **Useful links** |
| **Exam board website**: <https://www.aqa.org.uk/subjects/history/gcse/history-8145>  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  **Please note that our topic choices are:**   * Britain Health and the People c1000 to the present day * Norman England c1066-c1100 * Germany, 1890-1945: Democracy and dictatorship * Conflict and Tension 1918-39.   **BBC Bitesize**: <https://www.bbc.co.uk/bitesize/examspecs/zxjk4j6>  This is a page specifically set up to give helpful support for the AQA History GCSE. Please make sure that you only look at the topics named above.  **Useful resources and study guides:** We will send you a letter early in the Autumn term to recommend revision guides and give you the option to purchase discounted copies.  **Seneca Learning:** <https://app.senecalearning.com/classroom/course/f635b740-3710-11e8-a1ec-d1c197cb140b>  This provides a link directly to the first topic we will be studying. Please be careful when using Seneca that you ***only*** study the topics listed above. |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | Medicine, public health and surgery in the Middle Ages and Renaissance.  To include case studies on the Black Death of 1348 and the Great Plague in 1665. | Medical progress in the 19th and 20th Century.  To include the development of vaccines, the discovery of the germ theory and the impact of war on medicine. | Modern public health with a focus on the development of the NHS.  **Norman England**  Anglo-Saxon England. | The Succession crisis of 1066 and the Battle of Hastings.  Life in England following the Norman Conquest. | A study of the historical environment: Yorkshire after the Normans  **Germany 1890-1945**  Germany before WW1.  Problems for the Kaiser pre-1914.  Impact of WW1. | The Weimar Republic 1919-1933.  Threats to democracy.  The growth of the Nazi Party.  The impact of the depression on Germany. | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activity:  Task – Use the work you have completed in class this term to sum up medical beliefs in the ancient world. You could create a mind map to show beliefs about the causes of disease and typical treatments. |

|  |
| --- |
| **Course: GCSE iMedia** |
| **Useful links** |
| Exam board website: https://www.ocr.org.uk/qualifications/cambridge-nationals/creative-imedia-level-1-2-award-certificate-j807-j817/  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations and coursework.  BBC Bitesize ICT: <https://www.bbc.co.uk/bitesize/examspecs/zdjphbk>  This is a page is set up to give helpful support for the ICT and breaks the main topics in to helpful chunks with mini assessments that you can carry out. This can help with revision for your exam.  BBC Bitesize Media: <https://www.bbc.co.uk/bitesize/subjects/ztnygk7>  This is a page that is set up to give helpful support for media studies which breaks up into the main topics to help you with the media aspect of iMedia looking at aspects such as game development and advertising. |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | R081: Pre-production  Skills  LO1: Understand the purpose and content of pre-production  R091: Designing a  game concept  LO1: Understand digital game types and platforms | R081: Pre-production  Skills  LO2: Be able to plan pre-production  R091: Designing a  game concept  LO2: Be able to plan a digital game concept | R081: Pre-production  Skills  LO3: Be able to produce pre-production documents  R091: Designing a  game concept  LO3: Be able to design a digital game proposal | R081: Pre-production  Skills  LO4: Be able to review pre-production documents  R091: Designing a  game concept  LO3 continued: Be able to design a digital game proposal | R081: Pre-production  Skills  Revision and exam preparation  R091: Designing a  game concept  LO4: Be able to review a digital game proposal | R082: Creating interactive multimedia products  LO1: Understand the purpose and properties of digital graphics  R087:  LO1: Understand the uses and properties of interactive multimedia products | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  Task 1 – Research and design your own moodboard, designing your own “perfect” bedroom.  It must include; images; colours; textures; visual aids  It can also include:   * text/slogans; graphics; logos   Task 2 – Develop your own Storyboard for a 5 minute clip about your life. Try and include all of the following information:   * number of scenes; scene content; timings * camera shots (e.g. close up, mid, long); camera angles (e.g. over the shoulder, low angle, aerial); camera movement (e.g. pan, tilt, zoom or using a track and dolly) * lighting (e.g. types, direction) * sound (e.g. dialogue, sound effects, ambient sound, music) * locations (e.g. indoor studio or other room, outdoor)   + camera type i.e. still camera; video camera ;virtual camera (e.g. for animations, 3D modelling or computer games) |

|  |  |  |
| --- | --- | --- |
| **Course: AQA GCSE Mathematics 8300** | | |
| **Useful links** | | |
| Exam board website:  <https://www.aqa.org.uk/subjects/mathematics/gcse/mathematics-8300>  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  White Rose Maths:  <https://whiterosemaths.com/resources/secondary-resources/secondary-sols/>  This is the Scheme of Work we will be following and so provides details as to the topics we will cover and in which order we will cover them. | | |
| **What you will cover in Y10** | | |
| Autumn | Congruence, similarity and enlargement | Representing solution of equations and inequalities |
| Trigonometry | Simultaneous equations |
| Spring | Angles & Bearings | Ratios & fractions |
| Working with Circles | Percentages and Interest |
| Vectors | Probability |
| Summer | Collecting, representing and interpreting data | Non-calculator methods |
| Types of number and sequences |
| Indices and roots |
| **Summer Holiday Preparation Task** | | |
| To help you consolidate your learning from KS3 and be ready for the start of year 10 we have secured access to a tutor service for each and every one of you.  You have had a one lesson introduction from your teacher on this and should aim to complete the course allocated to you. The time it takes will vary depending on how often you access it and how many topics you need to revisit. Mrs Heppleston will monitor your progress throughout the summer break.  You have been allocated to a course by Mrs Heppleston. This will be one or two grades below your target.  Start by clicking the START button on the first idea. Work through the quizzes and videos until you complete that idea and then move onto the next one.  The website is:[**https://vms.completemaths.com/**](https://vms.completemaths.com/)  For most of you your username and password are set to your **first name followed by DCS**.  For example: ThomasDCS  The first letter is a capital as are the letters DCS.  Your teacher will let you know if your Username is different from this.  Please email Mrs Heppleston if you have the same name as another pupil in your year and you have not been spoken to. [c.heppleston@derbycatheralschool.org.uk](mailto:c.heppleston@derbycatheralschool.org.uk) | | |

|  |
| --- |
| **Course: AQA Level 2 Further Maths** |
| **Useful links** |
| Exam board website: <https://www.aqa.org.uk/subjects/mathematics/aqa-certificate/further-mathematics-8365>  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  Mr Barton Maths: <http://www.mrbartonmaths.com/students/aqa-level-2-certificate-in-further-mathematics/>  This site has past exam papers, diagnostic quizzes and video guides.  Corbett Maths: <https://corbettmaths.com/more/further-maths/>  Worksheets and videos that we will use throughout the course.  Hodder education: <https://www.hoddereducation.co.uk/subjects/maths/products/14-16/aqa-level-2-certificate-in-further-mathematics/scheme-of-work>  From here you can download the Scheme of Work we will be following with hyperlinks to useful resources we will be accessing. |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | Surds  Product rule  Linear equations  Expanding brackets including binomials | Factorising  Manipulation of formulae  Completing the square | Functions | Quadratic equations | Algebraic proof  Sequences including limits to infinity | Coordinate geometry  Including equation of a line and equations of circles | |

|  |
| --- |
| **Course: GCSE Music** |
| **Useful links** |
| Exam board website: <https://www.eduqas.co.uk/qualifications/music-gcse/#tab_overview>    This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  BBC Bitesize: <https://www.bbc.co.uk/bitesize/examspecs/zbmct39>  This is a page specifically set up to give helpful support for the Eduqas GCSE Music and breaks the main topics in to helpful chunks with mini assessments that you can carry out.  The course is split into four areas of study. The following links show some of the area of study:  <https://www.youtube.com/watch?v=97qV3QBwV7s>  <https://www.youtube.com/watch?v=IAyQz12h1Rk>  <https://www.youtube.com/watch?v=QMOiZZwLApM&list=RDIAyQz12h1Rk&index=5>  <https://www.youtube.com/watch?v=p6xJGxboCW8>  <https://www.youtube.com/watch?v=AJ8OLgWI4ps&list=PL5rLBp55qluhagvjXeIu-q-kbjIY67B3V>    Set works: You will cover two set works in GCSE Music. Here is a link to each:  **Africa by Toto**  <https://www.youtube.com/watch?v=FTQbiNvZqaY&list=PL6s34SaBWoh4YHqXaWaeRKa6rLZn86hho&index=1>  **Badinerie – By JS Bach**  <https://www.youtube.com/watch?v=Tv40mcAM1ZA> |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Half term 1**  **Learning Overview** | **Half term 2**  **Learning Overview** | **Half term 3**  **Learning Overview** | **Half term 4**  **Learning Overview** | **Half term 5**  **Learning Overview** | **Half term 6**  **Learning Overview** | | Ensemble Performance: Africa by Toto (30)  Composition based on Africa: (30)  Listening and Appraising 1, 2 and 3 (40)  Mozart Versus Stormzy (part of appraising)  3 50 minute lessons per week.  1 Performing  1 composing  1 listening and appraising | Ensemble Performance: Africa by Toto (30)  Composition based on Africa: (30)  Listening and Appraising 4 and 5 (40)  Mozart Versus Stormzy (part of appraising)  3 50 minute lessons per week.  1 Performing  1 composing  1 listening and appraising | **Area of Study 1: Musical Forms and Devices**  Solo Performance: Working towards performance at the Cathedral (30)  Composition based on texture: (30)  Listening and Appraising AoS 1 (40)  Set Work: Africa by Toto  3 50 minute lessons per week.  1 Performing  1 composing  1 listening and appraising | **Area of Study 4: Popular Music**  Solo Performance: Working towards performance at the Cathedral (30)  Composition to a Brief – Film Music (30)  Listening and Appraising AoS 4 (40)  Set Work: Africa by Toto  3 50 minute lessons per week.  1 Performing  1 composing  1 listening and appraising | **Area of Study 2: Music for Ensemble**  Performance: Building a 4-minute performance programme  Ensemble: Bach (30)  Composition to a Brief – Film Music (30)  Listening and Appraising AoS 2 (40)  Set Work: Bach  3 50 minute lessons per week.  1 Performing  1 composing  1 listening and appraising | **Area of Study 3: Film Music**  Performance: Building a 4-minute performance programme  Ensemble: Bach (30)  Composition to a Brief – Film Music (30)  Listening and Appraising 3 AoS (40)  Set Work: Bach  3 50 minute lessons per week.  1 Performing  1 composing  1 listening and appraising | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  **Task 1** – We will be using the acronym ‘MAD T-SHIRT’ to help us to analyse and discuss pieces of music.  Here is what each letter stands for:  **Melody.Articulation.Dynamics.Tempo.Structure.Harmony.Instruments.Rhythm.Texture**  Write a short sentence explaining what each musical aspect is. You may want to add some descriptive words to (For example, conjunct melody is a melody that moves in step and a disjunct melody moves in leaps).  **Task 2** – The link to the set works are above. Choose one set work and choose three of the musical aspects above. Try and find out as much about that aspect in the set work as possible.  For example, if the set work was Chopin’s Raindrop Prelude, I might write:  **Instrumentation** – *this piece is written just for one instrument, the piano. Chopin uses the whole range of the piano and also uses the pedal a lot to produce lots of sustained sounds.*  **Dynamics** – *This piece uses lots of contrasts of volume. In the middle section, the dynamic reaches FF (fortissimo)*  **Melody** – *the melody uses a three-note falling motif, which sounds like a falling raindrop.* |

|  |
| --- |
| **Course: GCSE Religious Studies (SHORT COURSE)** |
| **Useful links** |
| **Exam Board: AQA Religious Studies Short Course.**  Exam board website:  <https://www.aqa.org.uk/subjects/religious-studies/gcse/religious-studies-short-course-8061>  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  BBC Bitesize: <https://www.bbc.co.uk/bitesize/examspecs/zjgx47h>  This is a page specifically set up to give helpful support for the AQA Religious Studies GCSE and breaks the main topics in to helpful chunks with mini assessments that you can do.  Useful study guide for God and Christian beliefs:  <https://revisionworld.com/gcse-revision/rs-religious-studies/christianity/god>  Seneca Learning: <https://senecalearning.com/en-GB/blog/gcse-religious-studies-revision/>  A useful online website that provides information and videos to support studying and revision. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **What you will study in Year 10:** | | | | | |
| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| **The study of Christianity.**  Key beliefs & teachings -  The nature of God. God as omnipotent, loving and just, and the problem of evil and suffering. | **The study of Christianity**  Christian beliefs about God’s role in creation.  Christian belief in the afterlife - life after death; judgement, heaven and hell. | **The study of Christianity**  The incarnation and Jesus as the Son of God - his crucifixion, resurrection and ascension.  Sin & salvation and the idea of atonement. | **The study of Judaism**  The nature of God: God as one  God as Creator  God as Law-Giver and Judge, loving and merciful. Beliefs about life after death. | **The study of Judaism**  The promised land and the Covenant with Abraham.  The role of Moses and the Ten Commandments. | **The study of Judaism**  The importance of the sanctity of human life, including the idea of ‘saving a life’. The relationship between free will and the law. |

|  |
| --- |
| **Summer Holiday Preparation Task:** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  **Task 1 - Find the meaning of the following terms that we will use in our lessons:**  Incarnation  Salvation  Trinity  Omnipotent  Omniscient  Omnipresent  Omnibenevolent  **Task 2 – What is God like? - How would Christians describe God?**  Using the **meanings** of the terms from Task 1, write a description of what God is like from the point of view of a Christian. Make sure you include examples in your work – e.g. if you write that Christians believe God can do the impossible, give some examples of God performing miracles either in the past or today. |

|  |
| --- |
| **Course: GCSE Religious Studies (FULL COURSE)** |
| **Useful links** |
| **Exam Board: AQA Religious Studies A**  Exam board website: <https://www.aqa.org.uk/subjects/religious-studies/gcse/religious-studies-a-8062>  This website will give you access to the exam specifications so that you know what you will be assessed on, as well as access to past papers to help you revise and prepare for your final examinations.  BBC Bitesize: <https://www.bbc.co.uk/bitesize/examspecs/zjgx47h>  This is a page specifically set up to give helpful support for the AQA Religious Studies GCSE and breaks the main topics in to helpful chunks with mini assessments that you can do.  Useful study guide for God and Christian beliefs:  <https://revisionworld.com/gcse-revision/rs-religious-studies/christianity/god>  Seneca Learning: <https://senecalearning.com/en-GB/blog/gcse-religious-studies-revision/>  A useful online website that provides information and videos to support studying and revision. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **What you will study in Year 10:** | | | | | |
| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| **AQA Religious Studies A Paper 1: The study of Christianity.**  Key beliefs & teachings including the nature of God, Jesus, Sin and Salvation | **AQA Religious Studies A**  **Paper 1: The study of Christianity**  Key practices including public & private worship, prayer, Bible study, the sacraments and Pilgrimage. | **AQA Religious Studies A**  **Paper 1: The study of Christianity**  The role of the Church in the local and worldwide community including charities, food banks and reconciliation | **AQA Religious Studies A**  **Paper 1:** **The study of Judaism**  Key beliefs and teachings including the nature of God, the covenant with Moses and the Mitzvot. | **AQA Religious Studies A**  **Paper 1:** **The study of Judaism**  Key practices including public & private worship, the Synagogue, prayer, Shabbat and Torah | **AQA Religious Studies A Paper 1:** **The study of Judaism**  Family life and festivals including rituals, rites of passage, dietary laws and the importance of key celebrations. |

|  |
| --- |
| **Summer Holiday Preparation Task:** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  **Task 1 - Find the meaning of the following terms that we will use in our lessons:**  Incarnation  Salvation  Trinity  Omnipotent  Omniscient  Omnipresent  Omnibenevolent  **Task 2 – What is God like? - How would Christians describe God?**  Using the **meanings** of the terms from Task 1, write a description of what God is like from the point of view of a Christian. Make sure you include examples in your work – e.g. if you write that Christians believe God can do the impossible, give some examples of God performing miracles either in the past or today. |

|  |
| --- |
| **Course: Science Trilogy and Triple** |
| **Useful links** |
| Exam board website:   * <https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/specification-at-a-glance> - Trilogy * <https://www.aqa.org.uk/subjects/science/gcse/biology-8461/specification-at-a-glance> - Triple Biology * <https://www.aqa.org.uk/subjects/science/gcse/chemistry-8462/specification-at-a-glance> - Triple Chemistry * <https://www.aqa.org.uk/subjects/science/gcse/physics-8463/specification-at-a-glance> - Triple Physics   These websites will give you access to the exam specifications so that you know what you will be assessed on.  <https://www.bbc.co.uk/bitesize/examspecs/z8r997h> - GCSE Bitesize  <https://www.youtube.com/watch?v=KnW83GITa84&list=PL7O6CcKg0HaHZ0TcM5G2Zmdd7XuMCnSGP> – Primrose Kitten is a youtuber who produces lots of Science based videos. |
| **What you will cover in Y10** |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | **Infection and response**   * Communicable diseases   **Quantitative chemistry**   * Chemical measurements, conservation of mass and the quantitative interpretation of chemical equations * Use of amount of substance in relation to masses of pure substances | **Chemical changes**   * Reactivty of metals * Reactions of acids * Electrolysis   **Particle model of matter**   * Changes of state and the particle model * Internal energy and energy transfers * Particle model and pressure | **Energy changes**   * Exothermic and endothermic reactions | **Bioenergetics**   * Photosynthesis * Respiration   **Atomic structure**   * Atoms and isotopes * Atoms and nuclear radiation | **The rate and extent of chemical change**   * Rate of reaction * Reversible reactions and dynamic equilibrium | **Homeostasis and response**   * Homeostasis * Human nervous system * Hormonal coordination in humans   **Forces**   * Forces and their interactions * Work done and energy transfer * Forces and elasticity * Forces and motion * Forces, accelerations and Newton’s law of motion | |
| **Summer Holiday Preparation Task** |
| To help you prepare for the start of the course I would like you to carry out the following activities:  Task 1  Draw and label diagrams of a plant cell, animal cell and bacteria cell explaining how the cells are adapted and what the organelles do.  Task 2  Draw a diagram of an atom, annotate the mass and charge of the subatomic particles. Draw the electronic configuration of the first 20 elements.  Task 3  Revise the equations for gravitational potential energy, kinetic energy, elastic potential energy, thermal energy, V=IR and Power. |

|  |
| --- |
| **Course: GCSE Spanish** |
| **Useful links** |
| The following websites will have lots of vocabulary and grammar activities to help you get off to a good start for GCSE Spanish.  1- Seneca Learning: Create a Seneca account and type AQA Spanish GCSE into the search bar.  2- Quizlet Learning: Spend some time on Quizlet looking at the vocabulary for the GCSE course. Type Spanish GCSE into the search bar.  3- BBC Bitesize: <https://www.bbc.co.uk/bitesize/examspecs/z4yyjhv>  4- These are useful study/revision guides to buy that will prepare you for the next couple of years:  [CGP revision guides](https://www.cgpbooks.co.uk/secondary-books/languages?sort=best_selling&quantity=36&page=1&view=grid&currentFilter=KeyStage_59&filter_key%20stage=KeyStage_59&filter_exam%20board=ExamBoard_140)  [Collins revision guides](https://collins.co.uk/collections/collins-gcse-9-1-modern-languages-revision) |
| **What you will cover in Y10** |
| |  |  |  | | --- | --- | --- | | **Theme 1: Identity and Culture**Topic 1: Me, my family and friends  • Relationships with family and friends • Marriage/partnershipTopic 2: Technology in everyday life  • Social media • Mobile technologyTopic 3: Free-time activities  • Music • Cinema and TV • Food and eating out • SportTopic 4: Customs and festivals in Spanish-speaking countries/communities | **Theme 2: Local, National, International and Global Areas of Interest**  Topic 1: Home, town, neighbourhood and region  Topic 2: Social issues  • Charity/voluntary work • Healthy/unhealthy living  Topic 3: Global issues  • The environment • Poverty/homelessness  Topic 4: Travel and tourism | **Theme 3: Current and Future Study and Employment**  Topic 1: My Studies  Topic 2: Life at school/college  Topic 3:Education Post 16  Topic 4: Jobs, career choices and ambitions | |
| **Summer Holiday Preparation Task** |
| To ensure you’re prepared for the start of your Spanish GCSE, you need to do the following:  1- Complete the following activities on the Present tense in Spanish:  1A- Circle the correct verb in each sentence and then translate into English   1. Todos los días yo **escuchas / escucho / escuchamos** música en mi dormitorio. 2. Los chicos **hablan / habla / habláis** italiano. 3. En verano mi familia y yo **viajo / viajamos / viajas** a Grecia. 4. Mi hermana **estudio / estudias / estudia** el dibujo pero yo **estudias / estudio / estudiamos** el teatro. 5. Los alumnos **llevo / llevan / llevas** uniforme. 6. ¿Vosotros nunca **comen / como / coméis** carne? 7. Cuando estoy de vacaciones siempre **tomas / tomo / tomamos** el sol en la playa. 8. Mi madre **cocináis / cocino / cocina** todos los días y después yo **lavo / lavan / lavas** los platos.   1B-Conjugate the following verbs using the present tense. The infinitive is in brackets.  1. they sing (cantar) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. we travel (viajar) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. you sg learn (aprender) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4. he rides (montar) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5. I live (vivir) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6. she enjoys (disfrutar) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  7. it opens (abrir) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  8. they start (empezar) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  9. we allow (permitir) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  10. you all spend *time* (pasar) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1C- Unscramble the sentences and then underline the verb in each one. What type of irregular verbs are these? Write a description about these irregulars and provide some examples.   1. natación prefiero hacer 2. que español piensa divertido el es 3. yo ir Marta queremos y compras de 4. fútbol ocho el empieza a las 5. duermo hotel no bien en un 6. prefieren mis las películas padres de amor 7. la vamos piscina a hoy |