

**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 English: My Life My Choices**

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| **You will learn** | **Online Resources** | **Teaching Resources/ Links** |
| **Reading:**   * Identify how a writer creates specific effects through AREDFORREST techniques. * Use inference to explore characterisation. * Understand the use of persuasion and authorial voice. * Use inference and deduction to explore layers of meaning. * Comment on how writers use sentence structure, word choice and imagery to create impact. * Exposure to different types of speeches across the ages   **Writing:**   * How to introduce a speech effectively. * Applying a range of writing strategies for PAFFO * How to select & sequence ideas. * Develop a range of sentence forms. * How to use discourse markers for cohesion. * Use effective vocabulary in the form of speeches and other transactional writing. | **Kerboodle:** **Unit My Life, My Choices: P82-105**  **Writing a Speech:** [Writing a speech - Speaking - KS3 English Revision - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/z2m3gk7/revision/3)  [Writing a speech - Y6 - P7 - English - Catch Up Lessons - Home Learning with BBC Bitesize - BBC Bitesize](https://www.bbc.co.uk/bitesize/articles/znvxt39)  **Persuasive writing:** [9 of the Best Persuasive Writing Worksheets and Resources for KS3 and KS4 English (teachwire.net)](https://www.teachwire.net/news/persuasive-writing-worksheets-and-resources-for-ks3-and-ks4-english)  **Examples of Historical Speeches:** [10 famous speeches in English and what you can learn from them - English Editing Blog (englishtrackers.com)](https://www.englishtrackers.com/english-blog/10-famous-speeches-in-english-and-what-you-can-learn-from-them/#:~:text=%20%20%201%20Martin%20Luther%20King%20I,Joseph%20Surrender%20Speech%201877.%20We%E2%80%99ve%20included...%20More)  **Famous speeches analysed:** [Famous Short Speeches For Your Inspiration | Homework Lab (homework-lab.com)](https://homework-lab.com/study-tips/famous-short-speeches-for-your-inspiration/)  **Inference:** <https://www.bbc.co.uk/bitesize/guides/zcxqg82/revision/1>  <https://www.bbc.co.uk/bitesize/topics/z43g87h/articles/z6h6wnb>  **Varied sentence openings:**  <https://www.bbc.co.uk/bitesize/guides/zybhcwx/revision/3>  **Range of sentences:** <https://www.englishclub.com/writing/sentence-variety.htm>  **Useful sentence Starters:** [Sentence starters](http://www.hamptonhill.richmond.sch.uk/attachments/download.asp?file=77) | CGP Key Stage Three English – All-in-one Revision & Practice  CGP Key Stage Three English – Complete Revision & Practice  CGP Key Stage Three Spelling, Punctuation & Grammar Guide – The Workbook  CGP Key Stage Three English – The Workbook  CGP Key Stage Three English- The Study Guide  Work pack of resources are available from the English Office. |
| **Additional Resources** | | |
| Seneca Learning online learning platform; BBC Bitesize website, Young Writers online website; Jumpmag website (etymology for children); Kerboodle online learning platform – English Ignite 3; CGP Key Stage Three Spelling, Punctuation & Grammar – The Workbook (includes answers); CGP Key Stage Three English – The Study Guide. | | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Maths – Foundation**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Factors and multiples**   1. Multiples. 2. Factors. 3. Prime numbers. 4. Prime factors. 5. Find highest common factor and lowest common multiple. 6. Square and cube numbers. 7. Square roots. 8. Using a calculator.   **Powers & Standard form**   1. Writing numbers in an index form. 2. Multiplying and dividing powers with the same base number. 3. Powers of zero and 1. 4. Powers of negatives. 5. Powers with brackets. 6. Ordinary number to standard form. 7. Standard form to ordinary. 8. Adjust numbers to correct standard form. 9. Multiply with standard form. 10. Dividing with standard form. 11. Add and subtract with standard form. 12. Using a calculator with standard form.   **Sequences**   1. Patterns with numbers & pictures. 2. Arithmetic sequence. 3. Generate sequences given the nth term. 4. Finding the nth term. 5. Determine if a term is in the sequence. 6. Special sequences such as Fibonacci. | **Hegarty Maths Clips:**  33  27  28  29-30  31-36  99,100  101  129  102  105-106  103  104  105  122  123  124  125  126  127  128  196  197  N  198  N  261,263 | **KS4 CGP textbook Pages:** Section 4.1 Page 34  Section 4.1 Page 35  Section 4.2 Page 36  Section 4.2 Page 37  Section 4.3 Page 38  Section 3.1 Page 26  Section 3.1 Page 26  Section 3.2 Page 28  Section 3.3 Page 30  Section 3.3 Page 30  Section 3.3 Page 31  Section 3.3 Page 31  Section 3.4 Page 32  Section 3.4 Page 32  Section 3.4 Page 32  Section 3.4 Page 33  Section 3.4 Page 33  Section 3.4 Page 33  Section 11.1 Page 129  Section 11.1 Page 127-128  Section 11.2 Page 130  Section 11.3 Page 132  Section 11.3 Page 133  Section 11.3 Page 133 |
| **Additional Resources** | | |
| <https://www.mathsgenie.co.uk/>  <https://www.onmaths.com/>  <https://www.bbc.co.uk/bitesize/subjects/z38pycw> | | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Maths – Higher**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Recurring decimals**   1. Convert terminating decimals to fractions. 2. Convert fractions to recurring decimals. 3. Recurring decimals to fractions. 4. Find reciprocal of a fraction.   **Powers & standard form**   1. Squares, cubes and roots. 2. Rules for multiplying and dividing powers. 3. Powers with brackets. 4. Negative powers. 5. Powers with different bases. 6. Ordinary number to standard form. 7. Standard form to ordinary. 8. Adjust numbers to correct standard form. 9. Multiply with standard form. 10. Dividing with standard form. 11. Add and subtract with standard form. 12. Using a calculator with standard form.   **Sequences**   1. Patterns with numbers & pictures. 2. Arithmetic sequence. 3. Generate sequences given the nth term. 4. Finding the nth term. 5. Determine if a term is in the sequence. 6. Special sequences such as Fibonacci. 7. Geometric sequence. 8. Generate a sequence using the nth term of quadratic. 9. Find the nth term for a quadratic sequence. | **Hegarty Maths Clips:**  52  73-74  53,54  71  99-101,121  102,103,106  105  104,107  790  122  123  124  125  126  127  128  196  197  N  198  N  261,263  264  247, 249,250  248 | **KS4 CGP Textbook Pages:** Section 3.6 Page 26  Section 3.6 Page 26  Section 3.6 Page 26  Section 3.6 Page 26  Section 7.1 Page 65  Section 7.2 Page 66  Section 7.2 Page 67  Section 7.2 Page 68  Section 7.2 Page 68  Section 7.3 Page 71  Section 7.3 Page 71  Section 7.3 Page 72  Section 7.3 Page 72  Section 7.3 Page 72  Section 7.3 Page 72  Section 7.3 Page 73  Section 14.1 Page 118-120  Section 14.1 Page 118-120  Section 14.1 Page 121  Section 14.3 Page 128  Section 14.3 Page 123-124  Section 14.3 Page 125-127  Section 14.3 Page 127  Section 14.3 Page 127  Section 14.3 Page 127 |
| **Additional Resources** | | |
| <https://www.mathsgenie.co.uk/>  <https://www.onmaths.com/>  <https://www.bbc.co.uk/bitesize/subjects/z38pycw> | | |

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**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Science**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Biology - Detection**   * Describe the differences between a light microscope and an electron microscope * Describe how fingerprints are used to solve crimes * Describe what is meant by DNA fingerprinting * Describe the structure and components of blood * Describe the role of a pathologist | Kerboodle Digital Book, Activate 3: P38-51  Light v electron microscopes  <https://www.youtube.com/watch?v=cQuX8tfwlYA>  Royal college of Pathologists – what is a pathologist  <https://www.youtube.com/watch?v=gtF82brtP1w> | The national academy DNA  <https://classroom.thenational.academy/lessons/dna-74tkgd>  Microscopes  <https://classroom.thenational.academy/lessons/microscopes-74wkat> |
| **Physics Turning points in Physics**   * Describe the geocentric model of the solar system * Describe the heliocentric model of the solar system * Describe the timescale of the Universe * Describe what is meant by the big bang * Describe how to get a satellite into orbit * Describe some use of satellites * Describe some of the risks and benefits of the space program * Describe what is meant by a radioactive material * Describe the risks and uses of radioactive material * Describe how electromagnetic induction works * Describe how electromagnetic radiation is used for communications. | Kerboodle Digital Book, Activate 3: P116–133  Video clips on the big bang, the heliocentric model of the solar system and the Earth’s rotation  <https://www.geo41.com/earth-the-solar-system#new-page-5>  The discovery and types of radiation  <https://www.youtube.com/watch?v=5oUagoF_viQ>  The life and work of Marie Curie  <https://ed.ted.com/lessons/the-genius-of-marie-curie-shohini-ghose> | Uses of electromagnets  <https://classroom.thenational.academy/lessons/uses-of-electromagnets-69jkge>  The Universe  <https://classroom.thenational.academy/lessons/universe-c5k36c> |
| **Additional Resources** | | |
| <https://www.thenational.academy/>  <https://www.bbc.co.uk/bitesize/> | | |

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**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Geography - Competing world and UK infrastructure**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| * To understand the geography of disease. * To understand solutions to the global food crisis. * To understand solutions to increasing global wilderness. * To understand the global solutions to the energy crisis. * To understand where our food in the UK comes from​. * To understand how agriculture is changing to meet our food need in the UK​. * To understand how our energy use and supply is changing​. * To understand how we reduce our carbon emissions. * To understand how the UK transport system works​. | Watch the Netflix documentary “Life on our planet” by Sir David Attenborough and create and information poster about the challenges and solutions the world faces due to population increase.  [Sustainable food resources - KS3 Geography - BBC Bitesize - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zjsc87h/articles/z88nhcw) read through information on website, make motes on each section and then complete the quiz  [Case study of changing energy use: The UK - Energy - GCSE Geography Revision - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/z3tjcwx/revision/3) read through the website and complete the quiz. Make a poster about renewable and non-renewable energy  [Measuring the impact of carbon dioxide on the environment - Carbon footprints - GCSE Geography Revision - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/zgk9v4j/revision/1) read through the website and complete the quiz.  [WWF Footprint Calculator](https://footprint.wwf.org.uk/#/) calculate your carbon footprint by completing the questionnaire on the website  [Coolgeography - GCSE - UK Infrastructure](https://www.coolgeography.co.uk/gcsen/EW_UK_Infrastructure_developments.php) read the information and make a poster about how the UK transport systems are being improved | Work pack of resources are available upon request from Humanities Office. |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 History**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Post War Britain**   * To explain how and why the NHS was set up. * To explain why the “Windrush” generation were invited to Britain. * To explain the impact of the “Windrush” generation on Britain. * To explain the policies of Margaret Thatcher. * To explain opposition to the policies of Margaret Thatcher. * To explain Britain’s involvement in the “war on Terror”. | BBC Bitesize learner guide on the creation of the NHS and the Welfare State. Students can read through the information watch the series of video clips and then complete the revision and test.  <https://www.bbc.co.uk/bitesize/guides/z27nqhv/revision/5>  BBC Bitesize learner guide on immigration and Windrush generation. Students can read through the information watch the series of video clips and then complete the revision and test.  <https://www.bbc.co.uk/bitesize/guides/z3wfmnb/revision/5>  Students can study this webpage on Margaret Thatcher and then make notes on Positives and Negatives of her time in office. They can then write up their answer to – Was Thatcherism good for Britain?  <https://www.bbc.co.uk/history/british/modern/thatcherism_01.shtml>  BBC Bitesize learner guide on immigration and tensions into the 21st Century. Students can read through the information watch the series of video clips and then complete the revision and test.  <https://www.bbc.co.uk/bitesize/guides/zt93tyc/revision/1>  Consider everything you have studied and answer these questions. You can then email the answer to your teacher, using your school email.  [g.hargraves@unity.lancs.sch.uk](mailto:g.hargraves@unity.lancs.sch.uk)  [l.wroe@unity.lancs.sch.uk](mailto:l.wroe@unity.lancs.sch.uk)  [t.shaun@unity.lancs.sch.uk](mailto:t.shaun@unity.lancs.sch.uk)  [m.beardsworth@unity.lancs.sch.uk](mailto:m.beardsworth@unity.lancs.sch.uk)   1. **Why did the Windrush Generation come to Britain and how have they been treated?** 2. **Was Thatcherism good for Britain?** | CGP Key Stage Three History:  P141 to 151  Work pack of resources are available upon request from the Humanities Office. |



**Half Termly Overview 04/01/2022 to 11/02/2021**

**Year 9 French**

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| **You will learn** | **Online Resources** | **Teacher Resources/Links** |
| **Technology**  You will learn how to give your opinions on various aspects of technology such as computers and mobile phones. You will discuss different ways to use technology. You will look at the advantages and disadvantages of technology and you will also compare different types of technology.    **Location of House**  You will be able to state whether your house is situated in a town, a city or a village, for example. | **Technology**  <https://www.bbc.co.uk/bitesize/guides/zf8jf4j/revision/1>  <https://www.bbc.co.uk/bitesize/guides/zf8jf4j/revision/2>  <https://www.bbc.co.uk/bitesize/guides/zf8jf4j/revision/3>  <https://www.bbc.co.uk/bitesize/guides/zf8jf4j/revision/4>  <https://members.gcsepod.com/shared/podcasts/title/13581/81472>    **Location of House**  <https://members.gcsepod.com/shared/podcasts/title/13584/81479> | Work pack of resources are available upon request from the MFL Office.    GCSE AQA French Revision Guides and Workbooks can be purchased from the MFL office. |
| **Additional Resources** | | |
| Lesson PowerPoints on the topics of Technology and Location of House are available upon request from the MFL Office. | | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 German**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| 1. **Location of house** – to say whether your house is situated in a town, a city or a village, for example. 2. **Types of house** – to say what type of house you live in 3. **Rooms of the house** – to talk about the different rooms you have in your house 4. **Furniture** – to list the different furniture items you have in your house and where they are. 5. **Adjectives to describe house and home** – to use a range of adjectives to describe your home | **House and Home**   1. <https://www.bbc.co.uk/bitesize/guides/zqs8qty/revision/1>   <https://www.bbc.co.uk/bitesize/guides/zqs8qty/revision/5>  <https://quizlet.com/36469480/aqa-gcse-german-house-home-flash-cards/>   1. <https://www.bbc.co.uk/bitesize/guides/zqs8qty/revision/2>   <https://www.bbc.co.uk/bitesize/guides/zqfd7hv/revision/7>  https://revisionworld.com/gcse-revision/german/house-home/house   1. <https://www.bbc.co.uk/bitesize/guides/zqs8qty/revision/3>   <https://quizlet.com/137400493/german-house-and-home-flash-cards/>   1. <https://quizlet.com/137400493/german-house-and-home-flash-cards/> 2. <https://www.bbc.co.uk/bitesize/guides/zqs8qty/revision/4> | Work pack of resources are available upon request from the MFL Office.    GCSE AQA German Revision Guides and Workbooks can be purchased from the MFL office. |
| **Additional Resources** | | |
| PowerPoints on House and Home available on request. | | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Spanish**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Technology**  You will learn how to give your opinions on various aspects of technology such as computers and mobile phones. You will discuss different ways to use technology. You will look at the advantages and disadvantages of technology and you will also compare different types of technology.    **Location of House**  You will be able to state whether your house is situated in a town, a city or a village, for example. | **Technology**  <https://www.livinglanguage.com/blog/2014/11/03/30-must-know-technology-words-in-spanish/>  <https://www.bbc.co.uk/bitesize/guides/znyprj6/revision/1>  <https://www.bbc.co.uk/bitesize/guides/znyprj6/revision/2>  <https://www.bbc.co.uk/bitesize/guides/znyprj6/revision/3>  <https://www.bbc.co.uk/bitesize/guides/znyprj6/revision/4>  <https://www.bbc.co.uk/bitesize/guides/znyprj6/revision/5>  **Location of House**  <https://quizlet.com/291870726/spanish-home-flash-cards/> | Work pack of resources and PowerPoints are available upon request from the MFL Office. |
| **Additional Resources** | | |
| Powerpoints on Technology and Location of House available on request. | | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Computer Science**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Memory & Storage**  Lesson 1 - The purpose of ROM in a computer system – understand the role of ROM in a computer system.  Lesson 2 - The purpose of RAM in a computer system - understand the role of RAM in a computer system.  Lesson 3 - Secondary storage: be able to identify the three main secondary storage methods  Lesson 4 - Characteristics: understand how to select the most appropriate type of secondary storage for different purposes.  Lesson 5 – Binary: understand how to convert denary to binary.  Lesson 6 – Binary: understand how to convert binary to denary. | Office 365  <https://www.office.com/?auth=2>  Year 9 > Content Library >  Memory & Storage >  Make use of the ‘Lesson Notes’ section to help support your learning.  [Types of memory in a computer - KS3 Computer Science - BBC Bitesize](https://www.bbc.co.uk/bitesize/clips/ztgw7ty)  [How computers see the world - Binary - KS3 Computer Science Revision - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/z26rcdm/revision/1) | KS3 Computer Science CGP:  P10 – 12  P66 - 76  Work pack of resources are available upon request from Computer Science Office. |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Art and Textiles: Insects and Bugs**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| This half term you will engage in an exciting Art Textiles project that will round off your ‘Insects & Bugs’ topic.  Using designing and making skills you will use three dimensional materials to create a visually stunning moth. You will build on current knowledge of form, space, texture, colour and pattern and apply these to new concepts of embroidery, fabric manipulation, cardboard and wire.  Two artists have been selected as a focus which will allow you to understand and appreciate Art Textiles in a contemporary setting.  Mr Finch, creator of fabulous fabric sculptures, will be analysed and evaluated alongside Yumi Okita, an embroidery artist using exquisite detail and colour. | <https://www.youtube.com/watch?v=JQL25_hoQ1k>  <https://www.youtube.com/watch?v=oW804tc_wm4>  <https://www.youtube.com/watch?v=-G15umFeN7M>  <https://www.designswan.com/archives/stunning-fabric-insect-sculptures-hand-crafted-by-yumi-okita.html>  <http://www.mister-finch.com/portfolio/> | Work pack of resources are available upon request from the Art Office. |
| **Additional Resources** | | |
| [www.tate.org.uk](http://www.tate.org.uk)  [www.craftscouncil.org.uk](https://www.craftscouncil.org.uk/)  [www.textileartist.org](https://www.textileartist.org/)  [www.vam.ac.uk](https://www.vam.ac.uk/collections)  [www.theartstory.org](https://www.theartstory.org/artists/)  [www.thestudentartguide.co.uk](http://www.thestudentartguide.co.uk)  [www.bbc.co.uk/bitesize](http://www.bbc.co.uk/bitesize)  [www.pinterest.com](http://www.pinterest.com) | | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Music**

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| **You will learn:** | **Online Resources** | **Teaching Resources/Links** |
| **Unit of Work: Protest Songs**  In this unit of work you will explore how music has been used to protest again discrimination of all kinds. We will begin by looking at the piece ‘Strange Fruit’ which is widely considered one of the first protest songs again racism.  Moving throughout the decades we will then move on to look at a range of music from the Black Lives Matters movement, in particular a song called ‘I Can’t Breathe’ which was released by the family of Eric Garner, in response to his death while being arrested in New York in 2014.  You will then get the opportunity to compose your own protest song about an issue that you feel passionately about. | **UC Music Department YouTube Channel**  <https://bit.ly/2FEtouh>  **Sheet Music Direct Website**  Email: music@unity.lancs.sch.uk  Password: Music123  **Songsterr**  Email: music@unity.lancs.sch.uk  Password: Music123 | Work pack of resources are available upon request from the Art Office. |



**Half Termly Overviews 04/01/2022 to 11/02/2022**

**Year 9 Food Technology – Raising Agents Module**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Raising Agents Module**   * To understand how the different raising work in making food products whether it be mechanical, biological or chemical. * The effects of combining different ingredients and the interaction of foods during preparation and cooking. * The functional properties of the ingredients in each of the products listed below and becoming familiar with new terminology.   **To practise chosen dishes for the technical skills with an adult**   * Raspberry Buns * Chelsea Buns * Gingerbread * Swiss Roll * Victoria Sandwich | [www.illuminate.digital/eduqasfood](http://www.illuminate.digital/eduqasfood)  Science of Food P68  [www.bbcteach.co.uk](http://www.bbcteach.co.uk)  Design & Technology – Food Preparation & Nutrition section – class clips  [www.foodafactoflife.co.uk](http://www.foodafactoflife.co.uk)  14-16 yrs section  [www.gcsepod.com](http://www.gcsepod.com)  Section on Science of food  [www.bbcfood.co.uk](http://www.bbcfood.co.uk)  To use the website to access recipes to practise trial dishes | Digital Textbook  Revision Guide  Work pack available by request from the Food Technology office |
| **Additional Resources** | | |
| Revision Guides  Revision Cards  Practical video demonstrations on Teams with recipe sheets | | |



**Half Termly Overviews 04/01/2022 to 11/02/2022**

**Year 9 Food Technology – Pastry Module**

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| **You will learn** | **Online Resources** | **Teaching Resources/Links** |
| **Pastry Products**  The different types of pastries  The functions of the ingredients in pastry  **Dishes to be prepared are:**   * Savoury Plait * Jam Roly Poly * Savoury Pie * Fruit Tartlets * Profiteroles | [www.illuminate.digital/eduqasfood](http://www.illuminate.digital/eduqasfood)  Pastry Making P160  Food Choices P134  [www.bbcteach.co.uk](http://www.bbcteach.co.uk)  Design & Technology – Food Preparation & Nutrition section – class clips  [www.foodafactoflife.co.uk](http://www.foodafactoflife.co.uk)  14-16 yrs section  [www.gcsepod.com](http://www.gcsepod.com)  All sections  [www.bbcfood.co.uk](http://www.bbcfood.co.uk)  To use the website to access recipes to practise trial dishes | Digital Textbook  Revision Guide  Work pack available by request from the Food Technology office |
| **Additional Resources** | | |
| Revision Guides  Revision Cards  Satchel for recipes and homework | | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Design and Technology**

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| **You will learn** | **Online resources** | **Teaching resources/Links** |
| **Investigate the Design context and understand about 1,2,3rd class levers:**   * Analyse an existing Jumping Jack puppet to see how it works. * Learn about 1,2 and 3rd class levers.   **Responding to a Design specification and modelling:**   * Read and understand the specification for the Jumping Jack. * Use card to model the puppet mechanism, understand where the fixed and moving pivots are and how the mechanism works – Draw and label your findings, state improvements.   **Research and Design ideas:**   * Find inspirational images to assist you in developing a suitable design idea. * Drawing initial design ideas annotating and responding to a design brief and specification.   **Using modelling materials to produce a concept prototype:**   * Understand what a concept prototype is and the different kinds of materials that could be used to make it. * Using either Card and CAD or manual skills to start to mark out and produce the concept prototype. * Making paper templates or drawing using CAD first.   **Manufacture:**   * Use different methods, scroll saw, pillar drill, abrasive papers, coping saw, belt sander to make the final concept prototype.   **Application of finishes and final evaluation:**   * Know and understand that surface treatments and finishes are applied for functional and aesthetic purposes. Prepare different surfaces for treatments and finishes.   Final testing, evaluation and modifications. | **Understand about 1,2,3rd class levers:** [Classes of Lever - YouTube](https://www.youtube.com/watch?v=kHKZIVWg-RM)  **Responding to a Design specification and modelling:** [GCSE DT NEA :- The Specification! - YouTube](https://www.youtube.com/watch?v=emwlyKCOtow)  **Research and Design ideas:** [GCSE DT initial ideas (sustainable lifestyle) - YouTube](https://www.youtube.com/watch?v=dXQShuAyHc8&list=PLe35K0hFmSlYx5d9df95FRT7EceXmCPg6&index=19)  **Using modelling materials to produce a concept prototype:** [GCSE DT - modelling your idea (examples) - YouTube](https://www.youtube.com/watch?v=tD2mxoTWosU&list=PLe35K0hFmSlYx5d9df95FRT7EceXmCPg6&index=8)  **Manufacture:** [How to Use a Coping Saw | Woodworking - YouTube](https://www.youtube.com/watch?v=aH1C98YYpFM)  [Antelope/Deer Bandfacer - YouTube](https://www.youtube.com/watch?v=Be8i2HgOYGo)  **Application of finishes and final evaluation:**  [Material Finishes - GCSE/KS3 Design & Technology | Product Design - YouTube](https://www.youtube.com/watch?v=YfFZGDvxsds) | You can collect a paper copy of the booklet and resource pack for the Levers and linkages – Jumping Jack project from reprographics.  Please refer to the power point which will be available remotely by teams and SMHW also during the live lessons. This has a breakdown of each lesson.  Work pack of resources are available from the Technology Office |
| **Additional Resources** | | |
| [Gunfight at the Grassy Knoll by Paul Spooner (Jan. 2021) - YouTube](https://www.youtube.com/watch?v=CGGXdk4qffI)  [Answering Machine (2012) by Paul Spooner - YouTube](https://www.youtube.com/watch?v=H7zsqo1MxmI)  [Cabaret Mechanical Theatre Automata - YouTube](https://www.youtube.com/watch?v=igRd5kmyebE)  www.technologystudent.com – inputs, processes and outputs. | | |

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**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 iD**

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| **You will learn** | **Online Resources** |
| * Legal and illegal drugs (medicines, alcohol, volatile substances and illegal drugs and the classifications). * How drug misuse can affect you as a person and influence your life choices. * Criminal gangs and how they exploit young people. * Mental health and it effects young people. | [Drugs | Childline](https://www.childline.org.uk/info-advice/you-your-body/drugs-alcohol-smoking/drugs/)  [Drugs and alcohol (youngminds.org.uk)](https://youngminds.org.uk/find-help/looking-after-yourself/drugs-and-alcohol/)  [Addiction — YoungMinds](https://youngminds.org.uk/find-help/medications/addiction/)  [Criminal exploitation and gangs | NSPCC](https://www.nspcc.org.uk/what-is-child-abuse/types-of-abuse/gangs-criminal-exploitation/)  [Feelings and symptoms (youngminds.org.uk)](https://youngminds.org.uk/find-help/feelings-and-symptoms/) |
| **Additional Resources** | |
| Young minds website  Think you know website | |



**Half Termly Overview 04/01/2022 to 11/02/2022**

**Year 9 Core PE**

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| **You will learn** | **Online Resources** | **Teaching Resources /Links** |
| * To know how to factor in exercise at home. * To know how to carry out your own exercise session at home using minimal equipment. * Plan and carry out your own exercise sessions at home. | <https://www.youtube.com/user/thebodycoach1>  Joe Wicks 30-minute PE lesson for everyone to have a go at – Fitness and fun  <https://www.youtube.com/channel/UCu-rJFVlr7ZAZ0en3RRALPw>  Max Whitlock gymnastics sessions at home. Every Tuesday & Friday at 3:30pm  <https://www.youthsporttrust.org/pe-home-learning>  PE activities that can be done individually or in pairs/small groups with a focus on the development of physical competence and actively learning the importance of personal skills to support social, emotional and mental wellbeing.  <https://www.youthsporttrust.org/60-second-physical-activity-challenges>  A fun ‘compete against yourself’ approach to physical activity with a focus on resilience and perseverance and the aim to achieve bronze, silver or gold medal aims. We have a range of activity cards and videos.  <https://www.youthsporttrust.org/active-learning>  Teaching wider school subjects such as English and Maths in a physical way so as to reduce children sitting for too long and making the learning fun e.g. timetable squats.  <https://burnleyleisure.co.uk/category/news/home-workouts/> | [Unity College PE- Home activities (padlet.com)](https://padlet.com/mwilliams393/j08dqdvaa3kmozht)    Use this link to our PE Padlet with lots of activities that you can complete at home.  There are lots of tasks and videos for you to watch and have a go at.    <https://padlet.com/mwilliams393/j08dqdvaa3kmozht>  Work pack of resources are available upon request from PE Office. |