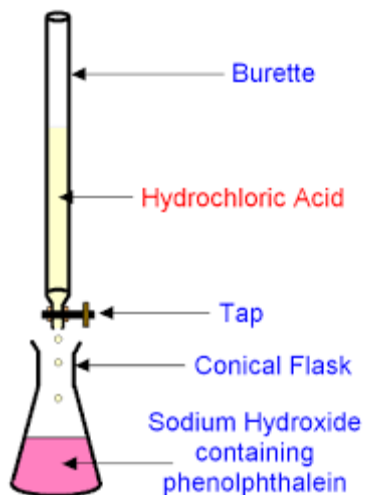


Year 10		
Subject	Core Homework	Additional Learning
Art	Practical Homework for Coursework	<p><b>Tonal Study</b></p> <p><b>Task</b></p> <ul style="list-style-type: none"> <li>• Think of your 'spirit' animal/ an animal that symbolises you. Find imagery of the animal and create a tonal study of it using pencil only.</li> <li>• Paint over the photocopy of your animal tonal study using acrylic paint.</li> </ul>
Biology	Multiple Choice Questions	<p><b>Plant structures and their functions</b></p> <p><b>Task</b></p> <p>Make a 3d model of a cross section of a leaf using only recyclable materials. Remember to label each part and describe its function.</p> <p><b>Or</b></p> <p>Imagine visiting Olive primary school ready to teach the circulatory system to Year 2. Can you produce any resources to help spark interest and inspire? What visual aids would you use?</p> <p><b>Or</b></p> <p><b>Photosynthesis</b></p> <p>Task-Plants need water, air and sunlight to grow. Did you know that they can grow without soil? You can make your own cress head to prove this!</p> <p>Do not forget to take a picture of your cress heads to show your science teacher.</p> <p>Cress egg experiment</p> <p><b>Possible Link to use:</b></p> <p><a href="https://blogs.glowscotland.org.uk/ea/public/hillsidessecondarymain2019/uploads/sites/12030/2021/03/01131555/Cress-egg-heads.pdf">https://blogs.glowscotland.org.uk/ea/public/hillsidessecondarymain2019/uploads/sites/12030/2021/03/01131555/Cress-egg-heads.pdf</a></p>

BTEC DIT	Multiple Choice Questions	<p><b>User interface</b></p> <p><b>Aim:</b> Understand the different types of user interface and why they are needed</p> <p><b>Task</b> - Create a PowerPoint or handwritten presentation which covers the following:</p> <ol style="list-style-type: none"> <li>1. Why is a user interface necessary?</li> <li>2. What is a Command Line Interface (CLI)?</li> <li>3. Who would use a CLI?</li> <li>4. Advantages and disadvantages of a CLI.</li> <li>5. What is a menu interface?</li> <li>6. Who would use a menu interface?</li> <li>7. Advantages and disadvantages a menu interface.</li> <li>8. What is a Graphical User Interface (GUI)?</li> <li>9. Who would use a GUI?</li> <li>10. Advantages and disadvantages of a GUI.</li> <li>11. What is a speech and sound interface?</li> <li>12. Who would use a speech and sound interface?</li> <li>13. Advantages and disadvantages of a advantages of a speech and sound interface.</li> <li>14. What is a Command Line Interface (CLI)?</li> <li>15. Who would use a CLI?</li> <li>16. Advantages and disadvantages of a CLI.</li> </ol> <p><b>Possible Links:</b></p> <p><a href="https://www.teach-ict.com/gcse_new/computer%20systems/user_interface/miniweb/index.htm">https://www.teach-ict.com/gcse_new/computer%20systems/user_interface/miniweb/index.htm</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zr9kw6f/revision/2">https://www.bbc.co.uk/bitesize/guides/zr9kw6f/revision/2</a></p>
Chemistry	Multiple Choice Questions	<p><b>Topic: Chemical Changes 1 (Acids, Alkalis and Salts)</b></p> <p><b>Aim: To correctly describe how to carry out a titration experiment, using an acid and an alkali.</b></p> <p><b>Task:</b></p>

Draw a labelled diagram showing the setup of a titration experiment  
Describe how you would carry out a titration experiment using the key words burette, conical flask, pipette filler, white tile, acid, alkali, indicator.

**Picture to use:**



**Possible Links:**

<https://studymind.co.uk/notes/titrations-2/>

Computer  
Science

Multiple Choice  
Questions

**Systems architecture**

**Aim:** Understand the different components needed to build a gaming PC

**Task** – Create a step-by-step guide of how to create a gaming PC (you can use MS Word or MS Powerpoint)

1. Research the different components needed

		<ol style="list-style-type: none"> <li>2. Explain why these components are needed</li> <li>3. Research the cost</li> <li>4. How long will it take to build the PC?</li> <li>5. What sort of games can you play and why?</li> </ol> <p><b>Possible links</b></p> <p><a href="https://www.intel.co.uk/content/www/uk/en/gaming/resources/how-to-build-a-gaming-pc.html">https://www.intel.co.uk/content/www/uk/en/gaming/resources/how-to-build-a-gaming-pc.html</a></p> <p><a href="https://www.techradar.com/how-to/how-to-build-a-pc">https://www.techradar.com/how-to/how-to-build-a-pc</a></p>
Design Technology	Multiple Choice Questions	<p><b>Time and Technology</b></p> <p><b>Task:</b> Research time and how its been affected by technology over the years</p> <p>Produce an A3 or A4 sheet showing how time has been measured over history from sundials to atomic clocks Please include technical information about the clocks but you could also create a mood board of clocks you like</p> <p><a href="https://interestingengineering.com/science/the-very-long-and-fascinating-history-of-clocks">https://interestingengineering.com/science/the-very-long-and-fascinating-history-of-clocks</a></p>
English	Rotation between multiple choice questions about substantive poetry knowledge and paper-based disciplinary tasks	<p><b>'Frankenstein'</b></p> <p><b>Aim:</b> To explore the significance of Shelley's novel as a timeless masterpiece which highlights issues we still face in modern society.</p> <p><b>Task:</b> listen to the podcast linked below. Write a paragraph explaining what you found most interesting about the discussion the guests have on the podcast.</p> <p>Podcast: <a href="https://www.bbc.co.uk/programmes/m00051n6">https://www.bbc.co.uk/programmes/m00051n6</a></p> <p>You might want to consider:</p> <ul style="list-style-type: none"> <li>• What new information does the podcast reveal that you did not know before?</li> <li>• Why is the context of the novel important?</li> <li>• Are there any points you strongly agree or disagree with? Why?</li> </ul>

		<ul style="list-style-type: none"> <li>Why do you think Shelley's novel is still relevant today?</li> </ul>
French	Rotation between Multiple Choice Questions and practice based questions	<p><b>French Culture: Family Life and Marriage</b></p> <p><b>Research:</b> Find out what family life is like in France, and what the traditions are for marriage.</p> <p><b>Task:</b> Create a PowerPoint slide, presentation or poster with at least 10 facts about family life and marriage in France.</p> <p><b>Include:</b></p> <ul style="list-style-type: none"> <li>What a traditional wedding involves</li> <li>What are the important roles of certain guests at a wedding</li> <li>What are the cultures and traditions within a French household</li> <li>What are the important things for Spanish families</li> </ul> <p><b>Possible Links:</b></p> <p><a href="https://culturalatlas.sbs.com.au/french-culture/french-culture-family">https://culturalatlas.sbs.com.au/french-culture/french-culture-family</a></p> <p><a href="https://www.lovetoknow.com/life/lifestyle/quick-guide-family-life-france">https://www.lovetoknow.com/life/lifestyle/quick-guide-family-life-france</a></p> <p><a href="https://www.frenchbedroomcompany.co.uk/blog/french-lifestyle/10-french-wedding-traditions#:~:text=At%20French%20weddings%2C%20the%20bride,the%20groom%20a%20nice%20watch.">https://www.frenchbedroomcompany.co.uk/blog/french-lifestyle/10-french-wedding-traditions#:~:text=At%20French%20weddings%2C%20the%20bride,the%20groom%20a%20nice%20watch.</a></p>
Geography	Rotation between multiple choice quiz, consolidation activities (brain dump, dual coding or	<p><b>Mind map summaries</b></p> <p><b>Aim:</b> To create a revision resource summarising the units we have covered so far</p> <p><b>Task:</b> Create a mind map of a GCSE Geography unit of your choice</p> <ul style="list-style-type: none"> <li>Include key facts and information that summarise the unit esp. place specific detail</li> <li>Images that remind you of the topic</li> <li>You can print out pictures, diagrams or maps to add to your mind map</li> </ul>

	flashcards) and practice questions	<p><b>Useful resources:</b></p> <ul style="list-style-type: none"> <li>• GCSEPod</li> <li>• Revision guides</li> <li>• Knowledge organisers</li> </ul> <p><a href="https://www.internetgeography.net/aqa-gcse-geography/">https://www.internetgeography.net/aqa-gcse-geography/</a></p>
History	Homework revision booklets – need to complete one section per week	<p><b>Mind map summaries</b></p> <p><b>Aim:</b> To create a revision resource summarising the units we have covered so far</p> <p><b>Task:</b> Create a mind map of a GCSE History unit of your choice</p> <ul style="list-style-type: none"> <li>• Include key facts and information that summarise the unit</li> <li>• Images that remind you of the topic</li> <li>• You can print out pictures or maps to add to your mind map</li> </ul> <p><b>Useful resources:</b></p> <ul style="list-style-type: none"> <li>• GCSEPod</li> <li>• Revision guides</li> <li>• Knowledge organisers</li> <li>• Content booklets</li> </ul>
iMedia	Rotation between Multiple Choice Questions and practice exam questions	<p><b>Analysis of a popular TV show or film</b></p> <p><b>Aim:</b> To research codes and conventions of moving image media</p> <p><b>Task:</b> Create a PowerPoint or handwritten presentation which covers the following:</p> <ol style="list-style-type: none"> <li>1) How has the genre/theme been established using costume/hair/makeup as well as scenes and props</li> <li>2) How has audio (sound fx/musical score &amp; dialogue) been used to establish genre/theme and mood?</li> <li>3) How has the lighting been used to create a mood or feeling in a scene?</li> <li>4) Are there any prominent or obvious uses of camera techniques for effect?</li> </ol>

		<p><b>Possible Links:</b></p> <p><a href="https://www.studiobinder.com/blog/mise-en-scene/">https://www.studiobinder.com/blog/mise-en-scene/</a>  <a href="https://www.studiobinder.com/blog/film-sound-effect-techniques/">https://www.studiobinder.com/blog/film-sound-effect-techniques/</a>  <a href="https://www.masterclass.com/articles/film-101-understanding-film-lighting">https://www.masterclass.com/articles/film-101-understanding-film-lighting</a>  <a href="https://www.youtube.com/watch?v=liyBo-qLDeM">https://www.youtube.com/watch?v=liyBo-qLDeM</a>  <a href="https://www.studiobinder.com/blog/cinematography-techniques-no-film-school/">https://www.studiobinder.com/blog/cinematography-techniques-no-film-school/</a></p>
Maths	MathsWatch	<p><b>Index Laws</b></p> <p><b>Aim:</b> Connect Factors, Powers, Roots &amp; Indices</p> <p><b>Task:</b> Create a PowerPoint or handwritten presentation which covers the following:</p> <ul style="list-style-type: none"> <li>• Show, by examples how these are connected</li> <li>• How do we use factors to find the square root of a number?</li> <li>• What is a base, what is an index and what is a coefficient?</li> <li>• What are the 7 laws of indices? Give examples of each one and try to mix them together!</li> <li>• Are there any exceptions to the rules?</li> <li>• Explain how where negative reciprocals come from and how they work (e.g. <math>3^{-2} = \frac{1}{9}</math>)</li> <li>• Explain the steps for fractional (and negative fractional) indices.</li> </ul> <p><b>Possible resources:</b></p> <ul style="list-style-type: none"> <li>• <a href="https://www.youtube.com/watch?v=ozuXy8_NZcg">https://www.youtube.com/watch?v=ozuXy8_NZcg</a></li> <li>• <a href="https://www.bbc.co.uk/bitesize/topics/ztqmhyc/articles/z93nsk7">https://www.bbc.co.uk/bitesize/topics/ztqmhyc/articles/z93nsk7</a>  <a href="https://thirdspacelearning.com/gcse-maths/algebra/laws-of-indices/">https://thirdspacelearning.com/gcse-maths/algebra/laws-of-indices/</a></li> </ul>
OCR Sports Science	Multiple Choice Questions	<p><b>Research about the principles of training</b></p> <p><b>Aim:</b> To research fitness and how it affects skill performance.</p> <p><b>Task:</b> Rank the fitness components below in order of importance for two sports and positions you play. Give examples of where each component of fitness is required.</p>

		<ul style="list-style-type: none"> <li>• Reaction time</li> <li>• Coordination</li> <li>• Strength</li> <li>• Power</li> <li>• Agility</li> <li>• Speed</li> <li>• Balance</li> <li>• Flexibility</li> <li>• Muscular endurance</li> <li>• cardiovascular endurance</li> </ul> <p>Possible links:  <a href="https://www.topendsports.com/fitness/components.htm">https://www.topendsports.com/fitness/components.htm</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zxd4wxs/revision/2">https://www.bbc.co.uk/bitesize/guides/zxd4wxs/revision/2</a></p>
Physics	Multiple Choice Questions	<p><b>Topic: Radioactivity</b></p> <p><b>Aim: Research into the life of Marie Curie.</b></p> <p><b>Task:</b>  Research into the famous physicist Marie Curie and present this either in writing or as a poster.  Include:</p> <ul style="list-style-type: none"> <li>• A brief overview of her life.</li> <li>• What she discovered and how this was helpful.</li> <li>• How she died.</li> <li>• How this links into your recent learning.</li> <li>• Any other facts.</li> </ul> <p><b>Possible Links:</b>  <a href="https://kids.nationalgeographic.com/history/article/marie-curie">https://kids.nationalgeographic.com/history/article/marie-curie</a>  <a href="https://www.ducksters.com/biography/women_leaders/marie_curie.php">https://www.ducksters.com/biography/women_leaders/marie_curie.php</a></p>



<p>Religious Education</p>	<p>Rotation between consolidation activities (brain dump, dual coding or flashcards) and practice questions</p>	<p><b>Jesus' Birth</b></p> <p><b>Task:</b> Produce an informative poster about Jesus' birth, teachings, crucifixion, resurrection and ascension according to the story in Christianity.</p> <p><b>Include:</b></p> <ul style="list-style-type: none"> <li>- The Christian story of Jesus' immaculate conception.</li> <li>- Jesus' teachings, including two parables and his two greatest commandments.</li> <li>- Why Jesus was crucified and what Christians understand by his resurrection.</li> <li>- What Christians understand by his ascension.</li> <li>- A quote that links to each major event – birth, death, resurrection and ascension.</li> </ul> <p><b>Possible Links:</b></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zbkvgdm/revision/4">https://www.bbc.co.uk/bitesize/guides/zbkvgdm/revision/4</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zgqjgdm/revision/5">https://www.bbc.co.uk/bitesize/guides/zgqjgdm/revision/5</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zvvg2sg/revision/10">https://www.bbc.co.uk/bitesize/guides/zvvg2sg/revision/10</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zbj48mn/revision/6">https://www.bbc.co.uk/bitesize/guides/zbj48mn/revision/6</a></p>
<p>Spanish</p>	<p>Rotation between Multiple Choice Questions and practice based questions</p>	<p><b>French Culture: Family Life and Marriage</b></p> <p><b>Research:</b> Find out what family life is like in Spain, and what the traditions are for marriage.</p> <p><b>Task:</b> Create a PowerPoint slide, presentation or poster with at least 10 facts about family life and marriage in Spain.</p> <p><b>Include:</b></p> <p>What a traditional wedding involves  What are the important roles of certain guests at a wedding  What are the cultures and traditions within a Spanish household  What are the important things for Spanish families</p> <p><b>Possible Links:</b></p> <p><a href="https://culturalatlas.sbs.com.au/spanish-culture/spanish-culture-family">https://culturalatlas.sbs.com.au/spanish-culture/spanish-culture-family</a></p>

<https://www.spaindesk.com/family-life-in-spain/>

<https://www.donquijote.org/spanish-culture/traditions/spanish-weddings/#:~:text=Weddings%20are%20one%20of%20the,on%20the%20couple%20getting%20married.>