

Review / Revise	Watch	Listen
<p><b>COMPUTATIONAL THINKING:</b></p> <p>(Task time approximately 45-60mins)</p> <p><b>Watch this video:</b>  <a href="https://youtu.be/euFj8D1A1Kw">https://youtu.be/euFj8D1A1Kw</a> and make notes using the Cornell Notes document.</p> <p><b>Read the following:</b>  <a href="https://www.cambridgemaths.org/Images/espresso_19_computational_thinking_in_the_classroom.pdf">https://www.cambridgemaths.org/Images/espresso_19_computational_thinking_in_the_classroom.pdf</a></p> <p><b>Answer the following using complete sentences and with examples:</b></p> <ol style="list-style-type: none"> <li>1. What is an algorithm?</li> <li>2. How can you create an algorithm? And provide an example.</li> <li>3. What is computational thinking?</li> <li>4. Why is computational thinking required in the study of computer science?</li> <li>5. Define the term 'abstraction' and provide an example.</li> <li>6. What is decomposition and provide an example.</li> </ol>	<p><b>BBC CLICK</b></p> <p>This is a really useful website for staying up to date with current technological news and supporting you in the A level topic concerning ethics, morals, legal and cultural issues surrounding computer science.</p> <p><b>Task 1: BBC click review of 2019</b>  This includes space travel, electric cars, 5G and the increased use by police of facial recognition.  Watch the video:  <a href="https://www.bbc.co.uk/iplayer/episode/m000d45t/click-best-of-2019">https://www.bbc.co.uk/iplayer/episode/m000d45t/click-best-of-2019</a></p> <p><b>Write</b> an article, summarising one of the topics from the Click review, highlighting one of the aspects they discussed and what were the advantages, or disadvantages of this.</p>	<p><b>NETWORK SECURITY AND THREATS</b></p> <p>You will discuss and learn about systems security, firewalls and encryption during your A level.  Listen to the following Podcast which talks about security, hacking and university hacking.  Podcast:  <a href="https://www.smashingsecurity.com/176">https://www.smashingsecurity.com/176</a></p> <p><b>Task 1:</b> Write a summary from the <b>podcast</b>—what are the key points they discuss?</p> <p><b>Task 2. Watch/listen to the following Ted Talk: “Why study computer science!”</b>  <a href="https://youtu.be/t3Y4p-6YWnQ">https://youtu.be/t3Y4p-6YWnQ</a></p> <p>Answer the following:</p> <ol style="list-style-type: none"> <li>1. Why have you chosen to study Computer Science at A Level?</li> <li>2. What do you aim to achieve from the course?</li> <li>3. What skills are you aiming to develop?</li> </ol>

