

Review / Revise	Watch	Listen
<p>COMPUTATIONAL THINKING:</p> <p>(Task time approximately 45-60mins)</p> <p>Watch this video: https://youtu.be/euFj8D1A1Kw and make notes using the Cornell Notes document.</p> <p>Read the following: https://www.cambridgemaths.org/Images/espresso_19_computational_thinking_in_the_classroom.pdf</p> <p>Answer the following using complete sentences and with examples:</p> <ol style="list-style-type: none"> 1. What is an algorithm? 2. How can you create an algorithm? And provide an example. 3. What is computational thinking? 4. Why is computational thinking required in the study of computer science? 5. Define the term 'abstraction' and provide an example. 6. What is decomposition and provide an example. 	<p>BBC CLICK</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>Task 1: BBC click review of 2019 This includes space travel, electric cars, 5G and the increased use by police of facial recognition. Watch the video: https://www.bbc.co.uk/iplayer/episode/m000d45t/click-best-of-2019</p> <p>Write 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>NETWORK SECURITY AND THREATS</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: https://www.smashingsecurity.com/176</p> <p>Task 1: Write a summary from the podcast—what are the key points they discuss?</p> <p>Task 2. Watch/listen to the following Ted Talk: “Why study computer science!” https://youtu.be/t3Y4p-6YWnQ</p> <p>Answer the following:</p> <ol style="list-style-type: none"> 1. Why have you chosen to study Computer Science at A Level? 2. What do you aim to achieve from the course? 3. What skills are you aiming to develop?

