



COMPUTER SCIENCE 'A' LEVEL TRANSITION WORK
OCR A LEVEL COMPUTER SCIENCE H446

Area of Study	Detail
Baseline assessment test topics	<p>The baseline test will include a range of topics from the GCSE in Computer Science, it will provide you with an insight into the progress you have made and/or your general knowledge taken from Key Stage 3 Computing lessons. Topics include:</p> <ul style="list-style-type: none">● Computational Thinking● Thinking Logically● Algorithms● Boolean Operators● Number Systems● Computer Systems● ASCII <p>Please feel free to email me malexander@smsj.london if you have any questions.</p>
Baseline assessment skills	<p>Demonstrate knowledge and understanding of the principles and concepts of computer science, including abstraction, logic, algorithms and data representation.</p>
Bridging activities	<p>COLLABORATIVE PROGRAMMING Improve your programming ability – this will support computational thinking; thinking logically and understanding algorithms: https://projects.raspberrypi.org/en/codeclub https://codecombat.com/</p> <p>Programming challenges in an online environment. https://www.101computing.net/category/python-challenges/</p> <p>EXPERT SUBJECT KNOWLEDGE</p>



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	<p>https://isaacomputerscience.org/ https://www.khanacademy.org/computing/computer-science</p> <p>Free revision with exam-style questions for each exam board. https://app.senecalearning.com/courses?Price=Free&Subject=Coding&Subject=Computer+Science</p>
Documentaries & Films	<p>Connections: Follow James Burke through the history of science and technology in this collection of 10 1-hour episodes, starting with "The Trigger Effect."</p> <p>Journey into Cryptography: https://www.khanacademy.org/computing/computer-science/cryptography</p> <p>The Secret Rules of Modern Living - Algorithms: Professor Marcus du Sautoy demystifies the hidden world of algorithms and reveals where these 2,000-year-old problem solvers came from, how they work, and what they have achieved.</p> <p>The Code (2011): Numbers are the rulers of the universe. What if there is a code for life's perfection? A code making the world we see, the "what we are" and the "everything else in the universe"?</p>
Podcasts Ted talks	<p>A collection of TED Talks (and more) on the topic of Computers. https://www.ted.com/topics/computers</p>
Revision websites	<ul style="list-style-type: none">• Computer Science Teacher: http://theteacher.info/• Excellent Video Resources: http://craigndave.org/• A level Computer Science learning: https://isaacomputerscience.org/• Easy to read resources by Mr. Fraser: https://www.mrfraser.org/• Cambridge Educational Resources for Schools https://www.cambridge.org/gb/education/subject/computing/computer-science/level-computer-science?currentTheme=Education&layout=listing&query=&tab=education&pageSize=20&qualification%5B%5D=OCR&sorting=#Samples• OCR A Level Computer Science Textbook: https://www.hoddereducation.co.uk/alevelcomputing/ocr



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- OCR Past papers: <https://www.ocr.org.uk/qualifications/past-paper-finder/>