

How to be a Year 9 CHSFG Scholar in Computer Science

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content: Digital Forensics - The case lands on your desk - The Story hidden in the files - Following the trail with logs - Proving nothing changed - How people get tricked - Solving the case Digital literacy covered: Excel – csv., inputting data, data types, formatting data, sorting, looking at images, pdf, word documents, metadata Digital Forensic Analyst: what they do, skills, Career pathway, wages and industry examples.	Content: Website building - Basic HTML - Planning your Website - CSS - HTTPS. DIV & Structure (MA) - Evaluating and reviewing your website. JavaScript (MA) Enrichment programming fun Code.org - HTML https://studio.code.org/ BEBRAS (MA) Hour of Code Digital literacy covered: Wireframing inserting images Web Developer: what they do, skills, Career pathway, wages and industry examples.	Content: Quantum & Emerging technologies - Quantum bits & Qubits - Quantum reality check - AI & Machine Learning - Cybernetics - Biotechnology - The future of emerging technology Digital literacy covered: Using AI effectively & reflecting Quantum Computing Specialist: what they do, skills, Career pathway, wages and industry examples.	Content: Python basics (MA) - Variables & input - Output - Floating Point binary - Selection - (Iteration) Enrichment Physical computing projects Digital literacy covered: Manipulating screenshots Software Developer: what they do, skills, Career pathway, wages and industry examples.	Content: Cyber Threats - Types of threats - Cyber Mechanisms - Social engineering etc. - Real World Cyber Attacks Enrichment ASCII Art Python Turtle Digital literacy covered: Using AI effectively & reflecting <i>End of Year exams</i> Cyber Threats Analyst: what they do, skills, Career pathway, wages and industry examples.	Content: Cyber Threats - Dark Web & Cybercrime - Ethical Hacking - Careers in Cybersecurity Physical Computing - Micro: Bit project - Arduino project (MA) Digital literacy covered: MS Forms Embedded Systems Engineer: what they do, skills, Career pathway, wages and industry examples.
Be a super CHSFG scholar: BBC Bitesize revision  Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f	Be a super CHSFG scholar:  Scratch help https://scratch.mit.edu/ BBC Bitesize revision  Computer Science	Be a super CHSFG scholar: BBC Bitesize revision  Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f	Be a super CHSFG scholar: BBC Bitesize revision  Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f	Be a super CHSFG scholar: BBC Bitesize revision  Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f	Be a super CHSFG scholar:  BBC Bitesize revision Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f

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 BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Online Safety videos https://www.thinkuknow.co.uk/  Play card games, jigsaw puzzles  Cyber for Teens Overview Courses and Resources National Cyber Security Centre  BEBRAS competition https://challenge.bebbras.uk/index.php?action=user_competitions	https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Puzzles Do sudoku's, code words and cryptograms https://hourofcode.com/uk  Web building help to develop your skills using HTML and CSS to build your own website. https://www.w3schools.com/	 BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  lots of coding ideas https://studio.code.org/  Safer use of Internet https://www.saferinternet.org.uk/advice-centre/young-people/resources-11-19s  Intelligent Machines. Write a short essay debating the following question – Are computers more intelligent than the people who make them?  Quantum computing What is Quantum Computing? - NQCC	 BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Virtual tour museum of computing https://my.matterport.com/show/?m=Vz8kCqGRiQA  Python Develop your Python programming skills by tackling some tasks from code club or Raspberry pi.org  Computer coding python projects for kids by Carol Vorderman. Read and try out some of fun coding activities	 BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Centre of Computing History - Plan a visit to the Centre of Computing History Rene Court, Coldhams Road, Cambridge, CB1 3EW http://www.computinghistory.org.uk/  Lot of activities to do in code https://www.raspberrypi.org/  Cyber crime Cyber Club - North East Regional Economic and Cyber Crime Units	 BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Online logic puzzles https://www.mathsisfun.com/puzzles/logic-puzzles-index.html  Where could Computer Science take you? Carry out some research to find out about some unusual careers with the tech and Compute Science industry. Digital locksmith? Drone operator? Professional hacker?  Cyber Security Cyber Security - Youth Fed
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How can I revise this subject?

Use BBC Bitesize; Build mind maps for each topic; make flash cards for key terminology; practice the numeracy tasks; teach someone else how to use technology; Write secret messages in binary to your friends and translate theirs.
Review your class learning regularly – make bullet points to summarise your learning.