

How to be a Year 8 CHSFG Scholar in Computer Science

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content: Transition - recap last year's learning - Baseline Assessment Scratch - Poetry generator - event driven - Magic 8 ball - Building a GUI - Convertor - Planets App (MA - subroutines) Online Safety - Balancing Life Enrichment Scratch programming fun e.g. Cornrow curves for hair braids Digital literacy covered: Recap key skills with Office 365 Screenshots Wrap text Game design: what they do, skills, Career pathway, wages and industry examples	Content: Flowol - zebra crossing - cot mobile - lighthouse - Millennium wheel - Assessment Online Safety - Fake news Enrichment BEBRAS (MA) Hour of Code Digital literacy covered: Using a range of software Manipulate media Automation Engineer: what they do, skills, Career pathway, wages and industry examples. Digital Media Analyst: what they do, skills, Career pathway, wages and industry examples	Content: Data Visualisation - Types of data & issues - Data capture - Big data - Data cleaning rules - Infographics - AI and big data Crack the code - alphabet ciphers - substitution ciphers - binary & encryption Enrichment e-textiles Digital literacy covered: Bias, using AI, MS Forms, charts Data Analyst: what they do, skills, Career pathway, wages and industry examples. Cyber Security Analyst: what they do, skills, Career pathway, wages and industry examples.	Content: Logic Gates - Recommendation systems - Logic Gates - using Excel to show logic Python - output & Strings - input & Variables - integers - Selection ICAN Dip – research Computing vs Climate Enrichment physical computing Digital literacy covered: Excel – if statements, Filtering, MS Word – report writing Researching online Software Developer: what they do, skills, Career pathway, wages and industry examples. Computer Engineer: what they do, skills, Career pathway, wages and industry examples.	Content: App Development - App for that - decomposition - Event driven programming - Project design - User input - App development - Project completion Online Safety - Copyright & Ownership Revision Digital literacy covered: Linking to website evidence <i>End of Year exams</i> Mobile Application Developer: what they do, skills, Career pathway, wages and industry examples. Digital Copyright & Intellectual Property Officer: what they do, skills, Career pathway, wages and industry examples.	Content: AI & Machine Learning - what is AI - Future jobs - Ethics & Privacy with AI - Robots - Expert systems - History & Future of AI - research AI - ML project Digital literacy covered: Evaluating online resources for accuracy/trustworthiness of information Artificial Intelligence and Machine Learning Engineer: what they do, skills, Career pathway, wages and industry examples.

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Be a super CHSFG scholar:  BBC Bitesize revision Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  Online Safety videos https://www.thinkuknow.co.uk/  Play card games, jigsaw puzzles Scratch https://scratch.mit.edu/  BEBRAS competition https://challenge.bebbras.uk/index.php?action=use_r_competitions	Be a super CHSFG scholar:  BBC Bitesize revision Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Puzzle books Do sudoku's, code words and cryptograms  Enjoy coding fun with Hour of Code https://hourofcode.com/uk  Flowol help https://www.youtube.com/channel/UCKQRjDArruv_vnODuVEBiQQ	Be a super CHSFG scholar: BBC Bitesize revision Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Safer use of Internet https://www.saferinternet.org.uk/advice-centre/young-people/resources-11-19s  Bletchley park Learning Resources Bletchley Park  Watch BBC Click to find out about new Tech https://www.bbc.co.uk/programmes/n13xtmd5/episodes/guide	Be a super CHSFG scholar:  BBC Bitesize revision Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Virtual tour museum of computing https://my.matterport.com/show/?m=Vz8kCqGRjQA  Online logic puzzles https://www.mathsisfun.com/puzzles/logic-puzzles-index.html  Interactive Logic gates https://circuitverse.org/simulator https://logic.ly/	Be a super CHSFG scholar:  BBC Bitesize revision Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/z8mtsbk  Intelligent Machines. Write a short essay debating the following question – Are computers more intelligent than the people who make them?	Be a super CHSFG scholar:  BBC Bitesize revision Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f https://machinelearningforkids.co.uk/#!/worksheets https://royalsociety.org/science-events-and-lectures/2017/01/science-matters-ai-machine-learning/ https://royalsociety.org/topics-policy/projects/machine-learning/machine-learning-in-the-world-around-you-infographic/
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.					