

How to be a Year 7 CHSFG Scholar in Computer Science

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content: Transition - using the computer - Using Office 365 in school and at home - Online safety - digital literacy project - Baseline Assessments - Algorithms HW – Digital literacy project Digital literacy covered: Basic PowerPoint Animations and transitions Basic excel Charts in Excel Emails – sending, attachments, netiquette OneDrive/SharePoint/Forms Basic Word Tables Downloading images Audience/purpose Digital Safety Specialist, what they do, skills, industry examples, wages and routes to become one. Digital Marketing Specialist, what they do, skills, industry examples, wages and routes to become one.	Content: Computational thinking - Algorithms - Computational thinking - Flowcharts - Pseudocode - Sorting Algorithms & Searching Algorithms - Revision - Assessment Enrichment BEBRAS Hour of Code Common Sense online safety game course https://www.digitalcompass.org/game/index.html Digital literacy covered: Inserting shapes in Excel/Word Keyboard shortcuts Software Developer, what they do, skills, industry examples, wages and routes to become one	Content: Internet of Things - Discovering IOT - Networks - Advantages & Disadvantages - Privacy & Security - Cybersecurity - Smart device project presentations Binary - Binary ASCII - Binary Numbers HW – Typing online practice https://www.typing.com/en-gb/student/lessons ICAN Diploma - Why is it so important to study Computer Science in school these days instead of just ICT? (MA) - Digital literacy covered: White space/bullet points/columns in Word Audience/purpose - Formal report in Word (MA) Smart Technology Engineer: what they do, skills, industry examples, wages and routes to become one	Content: Scratch - Basics – background/sprites/movement/ I/O - Variables & Decisions - Adder program & Calculator app - Revision Hardware - I/O - Inside a computer - H/W – Health & Safety Enrichment Scratch programming fun e.g. language translation quiz Digital literacy covered: Wrap text Screenshots Keyboard shortcuts Using Excel Game Designer, what they do, skills, industry examples, wages and routes to become one. Computer Engineer, what they do, skills, industry examples, wages and routes to become one.	Content: Revision Spreadsheet Superpowers - Spreadsheet uses & formulas - Budgeting with spreadsheets - Functions & auto fill - Data validation & conditional formatting - Charts - Real world problem with spreadsheets Digital literacy covered: Using Excel workbooks Formulas & functions Charts Auto fill Conditional formatting <i>End of Year exams</i> Data Analyst, what they do, skills, industry examples, wages and routes to become one.	Content: Micro:Bit - Hardware/basic I/O - Number guessing game - Guess the direction - Reaction timer Enrichment Micro: Bit programming fun Kodu - How programs work - Creating landscapes - Navigation and pathing - Clones and Creatables - Pages and selection - Game depth and complexity (MA) Digital literacy covered: Practicing - Wrap text Screenshots Keyboard shortcuts Graphical engineers for gaming, explore examples.

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		Cyber Security Analyst, what they do, skills, industry examples, wages and routes to become one.			
Be a super CHSFG scholar:  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  BEBRAS competition https://challenge.bebbras.uk/index.php?action=use_r_competitions  Map of Computer Science. A fantastic short video summarising the field of computer science. https://www.youtube.com/watch?v=SzJ46YARaA	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/zvc9q6f  Puzzles Do sudoku's, code words and cryptograms  Enjoy coding fun with Hour of Code https://hourofcode.com/uk  Computational Fairy Tales by Jeremy Kubica. A story through the principles of computational thinking.	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/zvc9q6f  Safer use of Internet https://www.saferinternet.org.uk/advice-centre/young-people/resources-11-19s  inside a computer https://www.youtube.com/watch?v=4eNTlwnnhss  TSOCC competition	Be a super CHSFG scholar:  Scratch help https://scratch.mit.edu/ 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	Be a super CHSFG scholar:  BBC Bitesize revision ICT https://www.bbc.co.uk/bitesize/subjects/zvc9q6f BBC Bitesize revision  Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  The year 2100. Imagine that it is the year 2100. What will the world be like? How will technology have changed? What new inventions will have been created? Sketch a picture of a large city giving a perspective on what you think the world will be like in 2100.	Be a super CHSFG scholar:  Lots of Micro:Bit activities https://makecode.microbit.org/  Kodu Help https://www.kodugamelab.com/ BBC Bitesize revision  Computer Science https://www.bbc.co.uk/bitesize/subjects/zvc9q6f  Logic problems to do https://www.mathsisfun.com/puzzles/logic-puzzles-index.html

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.