

Culcheth High School Key Stage 3 Curriculum Map 2020 - 2021

Computer Science Year 7



	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Concepts	Introduction to Computing	Binary Numbers and Data Representation	Introduction to Algorithms, Internet Technology	Computational thinking and Problem Solving	Embedded Systems & Application software	Application Software and Structured Data Systems
Themes	How computers work, E-safety,	Binary numbers and images representation (iteration)	Abstraction, Decomposition, the internet and the World Wide Web	Abstraction, Decomposition and basic programming functions, embedded systems and flow diagrams	Flowol, Spreadsheet modelling and effective application development	Databases, word processing, publications and presentations
Writing Whole school literacy focus	Structure and presentation of data. Project-Based assessment (audience and purpose of presentation)	Structure of information Written test on binary numbers	Structure of information, flow charts	Decomposition, problem-solving and data structure Programming syntax and curriculum vocabulary	Audience and purpose of information	Audience and purpose of information
Spiritual, Moral, Social and Cultural theme (SMSC) Fundamental British Values	E-safety UK Computer Scientists	Plagiarism, ethical use of information	Working with others Problem-solving	Ethical working practices	Working with others Principles of coding	Research and plagiarism, ethical working practices.
Key Assessment Focuses, Suggested Assessments and Feedback Week	Computer Systems assessment(week 7 QMA 1, feedback week 8), E-safety presentation & Google Classroom homework tasks	Binary Assessment, written test (QMA2), feedback following lesson	Dance script, Flow charts and descriptions Completed unit assessment	Programming assessment design and creation (QMA3)	Homework tasks with recall in lessons	Database Systems (QMA 4) feedback and improvements week after
Special Events						
Possible Visits						

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