

Culcheth High School Key Stage 3 Curriculum Map 2026 - 2027

Subject: Computer Science

	Week	Year 7	Year 8	Year 9
Autumn Term 1	1	Introduction to Network, Usernames, Passwords and Folder structures	How Smart is a Computer?	Introduction to AR in society
	2	Google classroom introduction	8 bit Binary conversions	
	3	Google Account development work	Binary Addition	Main Features and Functions of AR
	4	Digital Literacy (Mouse)	Hexadecimal Notation	
	5	Shortcuts in Wordprocessing	ASCII Representing Characters	Developing AR application skills
	6	E-safety (Social Media)	Introduction to Encryption	
	7	Binary Numbers (Basics)	QMA 1	Developing AR application skills
	8	QMA 1	Spreadsheet Recap	
Autumn Term 2	9	Computer Architecture	Advanced formula in Spreadsheets (max, Min, Average & IF)	Developing AR application skills
	10	Hardware	Using the Count function in Spreadsheet Modelling	
	11	Software	Using the LOOKUP function in Spreadsheet Modelling	Customising an application for an end user
	12	Introduction to Algorithms (Output and Input)	Using and Manipulating data	
	13	Developing Programming Techniques	Modelling Development	Customising an application for an end user
	14	Image Representation	QMA 2	
	15	Shape Patterns and Iteration	QMA 2 Feedback and improvements	Evaluating the quality of AR projects
Spring Term 1	16	Introduction to Spreadsheet Modelling	Networks and Account Safety	
	17	Basic Modelling Formula & Formatting	Network Structures LANs & WAN's	QMA 1

	18	Further Formula Development	Network Storage	
	19	Selection Statements and modelling techniques	Threats to Networks	Modelling Skills and Techniques Recap
	20	Using Modelling Tools and Techniques	Prevention Methods	
	21	QMA 2	Linear Search Algorithm	Importing and formatting data files
Spring Term 2	22	Introduction to Internet Technology	Binary Search Algorithm	
	23	Internet of Things and HCI's	Bubble Sort Algorithm	Creating a suitable HCI for a specific user needs
	24	Internet of Things and Embedded Systems	Boolean Logic in Spreadsheets	
	25	Word Processing Introduction	Boolean Logic in Spreadsheets	Using Calculations to help with data predictions
	26	Formatting and Presentation Skills	QMA 3	
Summer Term 1	27	Producing Professional Word Processing documents	Collecting and Manipulating Data in a Spreadsheet	Creating Outputs using data calculations
	28	Introduction to Database Management	Using applications to plan and produce suitable outcomes	
	29	Creating Database Structures	HCI's in Modelling	Planning a Model for an end user and importing data
	30	Creating Database forms	Use of MACros (VB)	
	31	Searching databases / QMA 3 revision	Designing and creating an application for an end user	Formatting data and creating an effective HCI
	32	QMA 3	Customising an application for an end user	
	33	Computational Thinking (Abstraction & decomposition)	1D arrays in programming	Developing the use of formula to help make predictions and calculations from data
Summer Term 2	34	Planning a Quiz	2D Arrays in programming	
	35	Creating an Interactive Quiz	Use of Functions in programming	Wordprocessing Skills 1
	36	Developing the Quiz	Developing solutions based on user needs	
	37	Evaluating the Quiz	Developing solutions based on user needs	Wordprocessing Skills 2
	38	While Loops in Scratch	Developing solutions based on user needs	

	39	For Loops in Scratch	Evaluating the success of problem solving techniques	Wordprocessing Skills 3
	40	For Loops in Scratch	Advanced Problem Solving techniques	