ICT Year 7

TERM	KEY READING	ADDITIONAL RESOURCES
AUTUMN 1	**Book: Dr Christian's Guide to Growing Up Online (Hashtag: Awkward): 1**	Online dangers - Online safety - KS3 Computer Science Revision - BBC Bitesize
AUTUMN 2	**Book: Computer Parts and Components Guide for Beginners: Comprehensive Quick Guide on How to Build a PC**	Hardware and software - KS3 Computer Science - BBC Bitesize Employer regulations - Health and safety when working with computers - GCSE ICT Revision - WJEC - BBC Bitesize
SPRING 1	**Book: Excel All-in-One For Dummies (For Dummies (Computer/Tech))**	How spreadsheets work - Spreadsheets - KS3 ICT Revision - BBC Bitesize
SPRING 2	**Algorithms to Live By: The Computer Science of Human Decisions**	What is an algorithm? - Algorithms - KS3 Computer Science Revision - BBC Bitesize
SUMMER 1	**Book: Scratch 3 Programming Playground: Learn to Program by Making Cool Games**	What is programming? - Introduction to programming - KS3 Computer Science Revision - BBC Bitesize
SUMMER 2	**Book: Advanced Scratch Programming: Learn to design programs for challenging games, puzzles, and animations**	Scratch in Practice (mit.edu)

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ICT Year 8

TERM	KEY READING	ADDITIONAL RESOURCES
AUTUMN 1	**Book: Understanding Binary Numbers: Concepts in Computer Systems (Vol 1)**	Data representation - KS3 Computer Science - BBC Bitesize
AUTUMN 2	**Book: Cyber Security: The complete guide to cyber threats and protection - 2nd edition Paperback – 12 Dec. 2022**	Online dangers - Online safety - KS3 Computer Science Revision - BBC Bitesize
SPRING 1	**Book: Flowchart and Algorithm Basics: The Art of Programming**	Flowcharts - Designing an algorithm - KS3 Computer Science Revision - BBC Bitesize Ultimate Flowchart Tutorial | Learn What is a flowchart and How to create a flowchart | Creately
SPRING 2	**Book: Introduction to programming in Pseudocode by Timothy J Lockwood**	Pseudocode - Designing an algorithm - KS3 Computer Science Revision - BBC Bitesize
SUMMER 1	**Book: Python Programming for Beginners: A Simple and Easy Introduction by Shanal Nathoo.**	Programming - KS3 Computer Science - BBC Bitesize Beginner's Python Tutorial: Learn Python • Python Land
SUMMER 2	**Bite-Size Python: An Introduction to Python Programming by April Speight**	Python Projects, from Beginner to Advanced – Dataquest

ICT Year 9

TERM	KEY READING	ADDITIONAL RESOURCES
AUTUMN 1	Sorting and Searching Algorithms by Emily Beck and Tony Lee	[Why do we need sorting algorithms? - Sorting - KS3 Computer Science Revision - BBC Bitesize](#)
AUTUMN 2	Design and Digital Interfaces: Designing with Aesthetic and Ethical Awareness by Ben Stopher , John Fass , et al.	[User interfaces - Human computer interfaces (HCI) - GCSE ICT Revision - WJEC - BBC Bitesize](#)
SPRING 1	Python Crash Course, 3rd Edition: A Hands-On, Project-Based Introduction to Programming	[Python Projects for Beginners - Columbia Engineering Boot Camps](#)
SPRING 2	Python Programming for Beginners Made Easy by ModernMind Publications	[Python Exercises, Practice, Solution - w3resource](#)
SUMMER 1	KS3 Computing Complete Revision & Practice: for Years 7, 8 and 9 (CGP KS3 Revision & Practice)	[Representing images - Representing text, images and sound - KS3 Computer Science Revision - BBC Bitesize](#)
SUMMER 2	Databases A Beginner's Guide by Andy Oppel Access in easy steps: Illustrated using Access 2019	[Database uses - Databases - KS3 ICT Revision - BBC Bitesize](#)

ICT/CS Year 10

TERM	KEY READING	ADDITIONAL RESOURCES
AUTUMN 1	Inside a CPU by Camboard Publishing New Python Programming Guide for GCSE Computer Science by CGP Books	Central Processing Unit (Processor) - Computer structure - National 5 Computing Science Revision - BBC Bitesize Python Exercises, Practice, Solution - w3resource
AUTUMN 2	Introduction to Algorithms: A Comprehensive Guide for Beginners: Unlocking Computational Thinking Paperback by Cuantum Technologies	Algorithm production - Designing, creating and refining algorithms - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize
SPRING 1	Flowcharts: First Step Towards Programming Paperback. by Raj Kumar Jain (Author)	Flow diagrams - Designing, creating and refining algorithms - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize
SPRING 2	Networking for Beginners: An Easy Guide to Learning Computer Network Basics. Take Your First Step, Master Wireless Technology, the OSI Model, IP Subnetting, Routing Protocols and Internet Essentials by Russell Scott.	Networks - Computer networks and topologies - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize
SUMMER 1	Modern Operating Systems Paperback by Andrew S Tanenbaum (Author)	Operating systems and user interfaces - Systems software - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize
SUMMER 2	Learn to program in Python – PG Online.	60+ Python Projects for All Levels of Expertise	DataCamp

ICT/CS Year 11

TERM	KEY READING	ADDITIONAL RESOURCES
AUTUMN 1	Ethics Computing Responsibly 2e: Living Responsibly in a Computerized World by Kevin W. Bowyer	Ethical issues - Ethical, legal and environmental impacts of digital technology - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize
AUTUMN 2	How the Internet Really Works: An Illustrated Guide to Protocols, Privacy, Censorship, and Governance	Network topologies - Network topologies, protocols and layers - AQA - GCSE Computer Science Revision - AQA - BBC Bitesize
SPRING 1	OCR GCSE Computer Science, Second Edition by George Rouse , Lorne Pearcey, et al.	GCSE Computer Science Past Papers - PMT
SPRING 2	OCR GCSE 9-1 Computer Science Complete Revision & Practice: Ideal for the 2025 and 2026 exams (Collins GCSE Grade 9-1 Revision)	GCSE Computer Science Past Papers - PMT
SUMMER 1	Algorithms to Live By: The Computer Science of Human Decisions by Brian Christian, Tom Griffiths, et al	What can I do with a computer science degree?	Prospects.ac.uk