

BASSINGBOURN VILLAGE COLLEGE AUTUMN 2020

CURRICULUM DELIVERY	In Years 7 and 8, students follow a scheme of learning that allows them to develop understanding of programming and other aspects relevant to the use of technology in the wider world. Students can then choose to complete the Computer Science GCSE which develops this understanding further. Students will have both practical and theory lessons to ensure that they become confident in a range of skills and help them apply the knowledge they have developed.					
CURRICULUM AIMS	Our aim within the Computer Science department at Bassingbourn Village College is that students will be able to: Develop their understanding of current and emerging technologies and how they work Look at the use of algorithms in computer programs Become independent and discerning users of IT Acquire and apply creative and technical skills, knowledge and understanding of IT in a range of contexts Develop computer programs to solve problems Evaluate the effectiveness of computer programs/solutions and the impact of computer technology on society					
CURRICULULM CONTENT	AUTUMN TERM	SPRING TERM	SUMMER TERM			
Year 7	Understanding Computer Systems	Algorithms & Programming	Networks			
Year 8	Data Representation	Computer Crime & Cyber Security	Algorithms & Programming			
Year 9	Computer Hardware Computer Software Computer Memory & Storage	Computational Logic Algorithms Programming Techniques	Data Representation Moral, Legal, Cultural and Environmental Concerns			

COMPUTER SCIENCE CURRICULUM MAP

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Year 10	Boolean Logic Data Storage Designing Creating & Refining Algorithms Programming Fundamentals Data Types	Additional Programming Techniques Practical Programming Skills Data Storage Compression Architecture of the CPU CPU Performance	Embedded Systems Secondary Storage Networks & Topologies Wired and Wireless Networks, Protocols & Layers
Year 11	Wired & Wireless Networks Network Topologies, Protocols & Layers Translators & Facilities of Language Programming project to be worked on at home	Revision Programming project to be worked on at home	Revision

ENRICHMENT OPPORTUNITIES	YEAR 7	Year 8	Year 9	Year 10	Year 11
	Typing.com	Typing.com Amazon Future Engineer	iDEA Award Amazon Future Engineer	iDEA Award Cyber Discovery Amazon Future Engineer	iDEA Award Cyber Discovery Amazon Future Engineer

For more information please contact Mr P Bolton on pbolton@bassingbournvc.org