

Year 10 Computer Science Curriculum Overview

Year 10	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Skills	Systems Architecture	Memory & Storage	Memory & Storage	Networks (topologies, protocols, security)	Programming	Algorithms
Knowledge	Understanding software & hardware	Different memory and when it is used Data representation (Binary, Hex , Binary addition)	Different memory and when it is used Data representation (Binary, Hex , Binary addition)	Understanding different network types and the hardware needed. Understand the threats to networks and how to protect them.	Problem solving techniques solving problems for particular needs	Problem solving techniques solving problems for particular needs
British Values	Understanding and learning about the legislation related to Computer Science & Technology and how this impacts on us all connected with justice and respect, trust and truth					
Alive Values	We can: Contribute, Question, Review, Communicate We are: Creative, Resilient, Organised, Interdependent					
Assessment	Ongoing formative and summative assessment	Ongoing formative and summative assessment	Ongoing formative and summative assessment	Ongoing formative and summative assessment	Ongoing formative and summative assessment	Ongoing formative and summative assessment Mock 1
Careers	<p>So many careers available in the digital/ cyber and computer science sectors. Not just technical jobs but also using ICT skills and problem solving skills we learn about in Computer Science.</p> <p>Here are some related jobs :</p> <ul style="list-style-type: none"> applications development computer forensics content management cyber security and risk management data analysis and analytics game development 					

Year 11 Computer Science Curriculum Overview

Year 11	Term 1	Term 2	Term 3	Term 4	Term 5
Skills	How CS impacts on society and the responsibilities	Understand the different types of systems software and what they do	Solving problems in a structured way.	Understand how to write code for different purposes. Understand Boolean logic gates and how they are used	
Knowledge	Ethical, legal, moral & environmental issues	Systems Software	Computational thinking	Programming Basics and Boolean Logic	Revision
British Values	Understanding and learning about the legislation related to Computer Science & Technology and how this impacts on us all connected with justice and respect, trust and truth				
Alive Values	We can: Contribute, Question, Review, Communicate We are: Creative, Resilient, Organised, Interdependent				
Assessment	Ongoing formative and summative assessment	Ongoing formative and summative assessment Mock 2	Ongoing formative and summative assessment Mock 3	Ongoing formative and summative assessment	Ongoing formative and summative assessment
Careers	So many careers available in the digital/ cyber and computer science sectors. Not just technical jobs but also using ICT skills and problem-solving skills we learn about in Computer Science. Here are some related jobs : applications development computer forensics content management cyber security and risk management data analysis and analytics game development				

How will studying this subject in Key Stage Four help students to make their unique contribution to the world?: Studying Computer Science at GCSE will help develop students into resilient, engaged, independent, and interdependent learners that seek to understand and question the world around them and that seek to take risks in their learning and to be reflective in order to strive for improvement. We hope that the curriculum will help foster students who are courageous advocates who develop a keen desire for environmental stewardship, social justice, respect, tolerance and the celebration of diversity. Studying Computer Science will provide students with workplace relevant skills, knowledge and understanding that will give them confidence in their capacity and allow them to grow and flourish in their future careers.