

Our Mission at The Burgate School & Sixth Form

We provide a broad and diverse curriculum with a creative approach to learning that inspires curiosity, encourages collaboration, builds resilience, and develops flexibility of thought.

Computer Science

Year Group		Topics	Enquiry	Questions	Supportive Resources
	Autumn	 E-Safety and Burgate ICT Skills Digital Image Manipulation 1 	How safe are you online?	How can we change images to fit our needs?	https://scratch.mit.edu/https://replit.com/~
7	Spring	Micro:Bit ProgramingScratch Programming and Game Building	What is a computer?	How many different skills are required to build a game?	 https://www.photopea.c om/ https://makecode.microb it.org/
	Summer	Python Programming (Basics)Project Work	What is a computer program and how do we create them from nothing?	What can I do with my skills so far?	https://www.bbc.co.uk/b itesize/guides/zrtrd2p/re vision/1
8	Autumn	E-Safety Refresh and UpdateWebsite creationDigital Manipulation 2	Are you still safe online?	What does it take to build a website in the age of AI?	 https://scratch.mit.edu/ https://replit.com/~



	Spring Summer	 Python programming 2 Scratch Game Building 2 Al vs Humans Project Work 	What have I remembered ? Are computers going to take over the world?	How much can I build on my previous understanding? Are you going to stop them if they are?!	 https://www.photopea.c om/ https://makecode.microb it.org/ https://www.bbc.co.uk/b itesize/guides/zrtrd2p/re vision/1 https://www.wix.com/ https://bard.google.com/
		Computer Science	world:		
	Autumn	 Exploring Algorithms Python 1 Creative iMedia Image editing 1 Finding your audience 	Is everything we do an algorithm?		
9	Spring	 Computer Science Data Structures Python 2 AI Explorations Creative iMedia Video editing 1 Gathering feedback AI Explorations 			• https://replit.com/~
	Summer	 Computer Science Python 3 Programming Project Creative iMedia Image editing 2 			



10	Autumn	 Video editing 2 Film Projetcs AQA 8525 Teaching Begins: 3.1 Fundamentals of algorithms 3.3 Fundamentals of data representation 3.4 Computer systems OCR J834 Teaching Begins: Media Industry Sectors & Products Job Roles in the Media Industry How Style, Content & Layout are Linked to Purpose Client Requirements & How They're Defined Audience Demographics & Segmentation Research Methods, Sources & Types of Data 		 https://replit.com/~ https://senecalearning.c om/en-GB/ https://isaaccomputersci ence.org/?examBoard=all &stage=all
	Spring	 AQA 8525 3.2 Programming 3.5 Fundamentals of computer networks 		



	 3.6 Cyber security OCR J834 Media Codes Used to Convey Meaning, Create Impact and/or Engage Audiences Work Planning Documents Used to Support Ideas Generation Documents Used to Design & Plan Media Products The Legal Issues that Affect Media 	
Summer	 AQA 8525 3.7 Relational databases and structured query language (SQL) 3.8 Ethical, legal and environmental impacts of digital technology on wider society, including issues of privacy 	



		 The Legal Issues that Affect Media Distribution Platforms & Media Properties & Formats of Media Files Coursework project 1 released and begins. 		
11	Autumn	AQA 8525 Revision for Mock Papers OCR J834 Coursework project 1 completed Coursework project 2 begins Revision for Mocks		 https://replit.com/~ https://senecalearning.c om/en-GB/ https://isaaccomputersci ence.org/?examBoard=all &stage=all
	Spring	AQA 8525		



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		 Learning based on Mock Findings Individualised program of study for students based on Mock results. 		
		OCR J834		
		 Coursework project 2 completed Revision for Exam 		
		AQA 8525		
	Summer	Revision and Exam 1 and 2		
		OCR J834		
		Revision for Exam		
12	Autumn	 10 Fundamentals of programming 11 Fundamentals of data structures 12 Fundamentals of algorithms 13 Theory of computation 		 https://replit.com/~ https://isaaccomputersci ence.org/?examBoard=all &stage=all



		14 <u>Fundamentals of data</u> representation	
	Spring	 15 Fundamentals of computer systems 16 Fundamentals of computer organisation and architecture 17 Consequences of uses of computing 18 Fundamentals of communication and networking 	
	Summer	 19 Fundamentals of databases 20 Big Data 21 Fundamentals of functional programming 22 Systematic approach to problem solving 23 Non-exam assessment - the computing practical project 	
13	Autumn	Paper 1 Preparation (Skeleton Code)Mock Revision	 https://replit.com/~ https://isaaccomputerscience.org/?examBoard=all
15	Spring	 Individualised program of study for students based on Mock results. 	<u>&stage=all</u>



9	Summer	Revision and Exam 1 and 2	