



**Curriculum Overview – Computing and ICT (Year 7 – 11)**

Year	Overview	Autumn 1 (Weeks 1 – 7)	Autumn 2 (Weeks 8 – 14)	Spring 1 (Weeks 15 - 20)	Spring 2 (Weeks 21 - 26)	Summer 1 (Weeks 27 - 32)	Summer 2 (Weeks 33 - 38)	Student Resources		
7	Computer science will cover various computer science and IT topics to prepare students for life in the digital age.	Online safety: How to stay safe online and how to protect your personal data.	Email: How email works and how to use it in a professional way.	Spreadsheet: The basics of using spreadsheets and how to use them to create computer models.	Graphics, bitmap, vectors, visualisation, Photoshop skills and image manipulation.	Computer hardware: What parts are used to make up a computer and how they work together. Binary: The language of computers and how they translate and use programming languages.	Python Turtle: How to program to python to create geometric shapes.	All resources are posted in Google Classroom.		
		Online test covering the topics and information taught.							Online test covering the topics and information taught throughout the year.	
		Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.		Set on Sam Learning every 2 weeks.	
8	Computer science will cover various computer science and IT topics. They will be taught an increasing amount of computer science to prepare them for the GCSE course so they can make informed options.	Online safety: How to protect yourself from and identify cyber-crime.	Scratch: Programming a computer games using standard programming concepts.	Flowol: creating flowcharts and algorithms to control real world sceneries.	Python programming: using a text based programming language to create programs.	Networks and the internet: What are computer networks, how we use them and the different types.	Creating digital video: How to create and edit digital video.	All resources are posted in Google Classroom.		
		Online Test covering the topics and information taught.							Online test covering the topics and information taught throughout the year.	
		Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.		Set on Sam Learning every 2 weeks.	
9	Year 9 are being taught computer science, business studies and iMedia to prepare them for Year 10 options.	Computer science: The CPU, main memory and secondary storage data representation using binary, HEX, and ASCII.	Networking and the internet and common technologies used.	Business: Marketing and the 4 P's, how to promote and develop a product.	Business finance: How business use money; cash flow, and costs.	iMedia project: Introduction to digital graphics and the skills needed to produce them.		All resources are posted in Google Classroom.		
		End of unit tests.		End of unit tests.			End of unit tests.			
		Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.		Set on Sam Learning every 2 weeks.	
10	OCR Computer Science 100% exam course 20 hour programming project Both exams Summer 2020	Unit 1 Systems: CPU, memory, storage Unit 2 Networks.	Unit 2: Networks Unit 3: Software	Unit 3: Software Python programming	Unit 4: Ethics Unit 5: Algorithms	Unit 6: Programming concepts	Unit 7: Logic	All resources are posted in Google Classroom.		
		End of unit written test								
		Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.		Set on Sam Learning every 2 weeks.	
11	OCR Computer Science 100% exam course 20 hour programming project Both exams Summer 2019	Unit 8 Data representation	20 Hour programming project	20 hour programming project. Start revising for summer exams	Revision for exam			All resources are posted in Google Classroom.		
		End of unit written test								
		Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.	Set on Sam Learning every 2 weeks.		Set on Sam Learning every 2 weeks.	
<b>Notes:</b>			<b>Examination Specification: OCR Computer Science 9-1</b>			<b>Homework Portal: Sam Learning</b>				