

Computing & ICT "Big Picture" Curriculum Map 2019-20

		Autumn Term 2019		Spring Term 2020		Summer Term 2020	
		Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
Year 7		1) E-Safety: Learn about the importance of protecting your personal information and keeping safe online.	2) Inside a Computer: Learn about the functions of different parts of a computer system-	3) Computational Thinking: Learn about taking a complex problem, understand what the problem is and develop possible solutions. -	4) Scratch Programming: Learn about writing computer code in a visual programming language to programs, in order to solve problems		5) Database Creation: Learn about how databases are crucial tools used to store large amounts of data in an organised way.
Year 8		1) Binary: Learn about how computers use binary to process data.	2) App Development in Appshed: Learn to create a complete app with full takeaway functionality on a smartphone -	3) Python Programming: Learn about writing computer code in a text-based programming language to create programs, in order to solve problems		4) Computer Networks: Learn about the two main types of networks and the benefits and problems of using them.	5) Instruction Set Design- Introducing programming concepts & problem solving skills-
Year 9 Core		1) Python Programming	2) Spreadsheets	3) GameMaker	4) Hardware & Logic	5) Web Development: Dreamweaver & HTML	6) Graphics Editing
Year 9 Option		Unit 1 Component A -BTEC Unit 1 and 2 CS Assessments	Unit 1 Component A -BTEC Unit 1 and 2 CS Assessments	Unit 2 Component B -BTEC Unit 1 and 2 CS Assessments	Unit 2 Component B -BTEC Unit 1 and 2 CS Assessments	Unit 2 Component C -BTEC Unit 1 and 2 CS Assessments	Unit 2 Component A -BTEC Unit 1 and 2 CS Assessments
Year 10		Unit 2 Component B -BTEC Unit 1 and 2 CS Assessments	Unit 2 Component B -BTEC Unit 1 and 2 CS Assessments	Unit 2 Component C -BTEC Unit 1 and 2 CS Assessments	Unit 2 Component C -BTEC Unit 1 and 2 CS Assessments	Unit 3 BTEC Assessments Unit 1 and 2 CS Assessments	Unit 3 BTEC Assessments Programming Project
Year 11		Unit 2 Component B & C -BTEC Unit 1 and 2 CS Assessments	Unit 3 BTEC Assessments Unit 1 and 2 CS Assessments	Unit 3 BTEC Assessments Unit 1 and 2 CS Assessments	Unit 3 BTEC Assessments Unit 1 and 2 CS Assessments	Unit 3 BTEC Assessments Unit 1 and 2 CS Assessments	
Year 12 ICT		Unit 1- LO1 Computer Hardware and LO2 Computer Software Unit 2- LO1 Transmitting information and LO2 Management of information	Unit 1- LO2 Computer Software and LO3 IT Systems Unit 2- LO2 Management of information and LO3 Benefits individuals/organisations	Unit 1- LO3 IT Systems and LO4 Employability and Communication Unit 2- LO4 Legal and Regulatory Framework and LO5 Flow of Information	Unit 1- LO5 Ethical and Operational Issues Unit 2- LO5 Flow of Information and LO6 Principles of Security	Unit 1- LO5, Unit 1 exam, Dreamweaver Skills Unit 2- LO6, Unit 2 exam, Dreamweaver Skills	Unit 8- Coursework Documents (P1, D1, P2) and Start M1 Unit 9- Coursework Documents (P1, D1, P2) and Start P3
Year 12 CS		Unit 1- 4 week assessment and 1.1 Processors (1.1.3, 1.1.1, 1.1.2) Unit 2- 4 week assessment and 2.2.1 Programming Techniques	Unit 1- 1.2.4 Programming Languages and 1.2 System Development Unit 2- 2.2.1 Java Skills and OOP	Unit 1- 1.2 System Development Unit 2- 2.2.1 Java Skills and OOP	Unit 1- 1.3.1 Compression, Encryption and Hashing Unit 2- 2.1 Elements of Computational Thinking	Unit 1- 1.3.4 Web Technologies Unit 3- Project Plan Idea and Research	Unit 1- 1.4 Legal, Moral, Cultural and Ethical Issues Unit 3- Analysis (first and final) and Design (first draft)
Year 13 ICT		Unit 8- Coursework Documents (M1, P3, D2, P4) and Start M2 Unit 9- Coursework Documents (P3, M2, Prototype 1 and 2) and Start Prototype 3	Unit 8- Coursework Documents (M2, P5, D3, P6, M3) Unit 9- Coursework Documents (Prototype 3, P4, P5, M3, P6, D2)	Unit 3- LO1 Term Cyber Security and LO2 Issues surrounding Unit 8 and 9- Improvements and Final Project deadline	Unit 3- LO3 Protect against Incidents and LO4 Manage Incidents	Unit 3- Mock exam and Revision	Unit 3- Revision
Year 13 CS		Unit 1- 1.4.1 Data Types Unit 2- 2.2.2 Computational Methods and 1.4.2 Data Structures Unit 3- Design (final), Development (review and first)	Unit 1- 1.3.2 Databases Unit 2- 1.4.2 Data Structures Unit 3- Development (final) and Evaluation (first and final)	Unit 1- 1.3.3 Networks Unit 2- 2.3 Algorithms Unit 3- Improvements and Final Project deadline	Unit 1- 1.3.3 Networks Unit 2- 2.3 Algorithms	Unit 1- Revision Unit 2- Revision	Unit 1- Revision Unit 2- Revision