

KS5 - Computing and IT

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	Level 3 BTEC National in Computing - Extended Certificate					
	Unit 1 Principles of computer science - Computational thinking - Algorithms	Unit 1 Principles of computer science - Programming and Types of programming Languages	Unit 1 Principles of computer science - Data representation and architecture - Project by programming a solution for a client - Hardware and software, Algorithms and programming, networks and databases.	Unit 3 System security and encryption - Current IT security threats, information security and the legal requirements affecting the security of IT systems.	Unit 3 System security and encryption - Cryptographic techniques and processes used to protect data	Unit 3 System security and encryption - Techniques used to protect an IT system from security threats
Year 13	Unit 2 Fundamentals of computer science - Hardware and Software - Computer Architecture - Data Representation	Unit 2 Fundamentals of computer science - How Data is organised - How data is transmitted	Unit 2 Fundamentals of computer science - Use of Logic and data flow in a computer system	Unit 4 Website development or Mobile Apps development - Principles of website/ APP development	Unit 4 Website development or Mobile Apps development - Design, develop and evaluate a website/ APP making use of scripting techniques.	Course End