



Subject Name: 0	Computer Science	ce and Information Technology	
Key Stage 4 (GCSE and/or B Tech)			
Curriculum Intent Statement			
to solve a variety of proble systems and the importan Computing and ICT will p	ems. To build an ur ace of online safety rovide students wit technologies that v	eir computational thinking skills and creativity nderstanding of the workings of digital and its impact. Our teaching of both h the future-proof skills and knowledge of vill prepare and enable them to fully	
Autumn Term 1			
GCSE Computer Science		BTEC IT	
 Systems architecture The CPU Functions & chara Memory Storage 	cteristics of CPU	 Component 1 Introduction to user interfaces Complex user interfaces, accessibility and user skills How hardware and software affect user interfaces Design principles Assignment A tasks 	
Autumn Term 2			
GCSE Compute	r Science	BTEC IT	
 Algorithms Computational Thinking Searching algorithms Sorting algorithms Flowchart algorithms Pseudocode Interpret, correct, complete algorithms 		 Component 1 Project planning techniques Project methodologies Coordinating project tasks SMART objectives Design specification Assignment B tasks 	
Spring Term 1			
GCSE Computer Science Networks The internet Local Area Networks Wireless networking Client-server and peer-to-peer Protocols and Layers 		BTEC IT Component 1 Project planning techniques Project methodologies Coordinating project tasks Project planning tools SMART objectives Design specification Assignment B tasks	

Spring Term 2		
GCSE Computer Science	BTEC IT	
 Programming concepts Sequence and selection Iteration Arrays 	 Component 1 Developing a functional user interface Dashboard Assignment C tasks Reviewing the interface Reviewing the project planning techniques 	
Summer Term 1	•	
GCSE Computer Science	BTEC IT	
 Programming Procedures and functions Records and files Practice programming project Select a programming task Design solution Develop solution in programming language Test solution Evaluate program 	 Component 1 Developing a functional user interface Assignment C tasks Reviewing the interface Reviewing the project planning techniques 	
Summer Term 2		
GCSE Computer Science	BTEC IT	
 Logic and languages Logic diagrams and truth tables Defensive design Errors and testing Translators and facilities of languages 	 Component 2 Data and information How to present information Making data suitable for processing Collecting data Assignment A tasks 	