Subject Name:	Computer Science and Information Technology

Key Stage 4 (GCSE and/or B Tech)

Curriculum Intent Statement

Our intention is to equip pupils to develop their computational thinking skills and creativity to solve a variety of problems. To build an understanding of the workings of digital systems and the importance of online safety and its impact. Our teaching of both Computing and ICT will provide students with the future-proof skills and knowledge of using and creating digital technologies that will prepare and enable them to fully participate in a technology-driven world.

Autumn Term 1

GCSE Computer Science	BTEC IT
Programming project NEA • Select a programming task • Design solution • Develop solution in programming language • Test solution • Evaluate program	**Component 2** • Importing data • Spreadsheet formulae • Cell referencing • Lookup functions • Start Assignment B tasks **Component 3** • Communication technologies • Cloud technologies and computing • Selection of platforms and services • Implications for organisations when choosing cloud technologies

Autumn Term 2

GCSE Computer Science	BTEC IT
System software and security • Network threats • Identifying and preventing vulnerabilities • Operating system software • Utility software	**Component 3** • Internal and external threats to digital systems • Protection methods • Security policies **Component 3** • Sharing data • Impact of technology on environment • Equal access

Spring Term 1	
GCSE Computer Science	**BTEC IT**
Ethics • Ethical and cultural issues • Computers in the modern world • Legislation and privacy	**Component 3** • Legal requirements • Net neutrality • Intellectual property **Component 3** • Notation • Flow diagrams and DFD • Interpreting diagrams **February exam**

Spring Term 2	
GCSE Computer Science	**BTEC IT**
Revision for May exams	**Component 2** • Data validation • Conditional formatting • Complete assignment B tasks

Summer Term 1	
GCSE Computer Science	**BTEC IT**
Revision for May exams **End of course**	**Component 2** • Drawing conclusions • Making recommendations • Assignment C tasks **Retake component 3 exams**

Summer Term 2	
GCSE Computer Science	**BTEC IT**
• **Course ended**	• **Course ended**