

## GCSE Computer Science

Year	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6
Year 10	<b>1.1 Systems architecture</b> <ul style="list-style-type: none"> <li>Architecture of the CPU</li> <li>CPU performance</li> <li>Embedded systems</li> </ul>	<b>1.2 Memory and storage</b> <ul style="list-style-type: none"> <li>Primary storage (Memory)</li> <li>Secondary storage</li> <li>Units</li> <li>Data Storage</li> <li>Compression</li> </ul>	<b>1.3 Computer networks, connections and protocols</b> <ul style="list-style-type: none"> <li>Networks and topologies</li> <li>Wired and wireless networks, protocols and layers</li> </ul>	<b>1.4 Network security</b> <ul style="list-style-type: none"> <li>Threats to computer systems and networks</li> <li>Identifying and preventing vulnerabilities</li> </ul>	<b>1.5 Systems software</b> <ul style="list-style-type: none"> <li>Operating systems</li> <li>Utility software</li> </ul>	<b>1.6 Ethical, legal, cultural and environmental impacts of digital technology</b>
Year 11	<b>2.1 Algorithms</b> <ul style="list-style-type: none"> <li>Computational thinking</li> <li>Designing, creating and refining algorithms</li> <li>Searching and sorting algorithms</li> </ul>	<b>2.2 Programming fundamentals</b> <ul style="list-style-type: none"> <li>Programming fundamentals</li> <li>Data types</li> <li>Additional programming techniques</li> </ul>	<b>2.3 Producing robust programs</b> <ul style="list-style-type: none"> <li>Defensive design</li> <li>Testing</li> </ul>	<b>2.4 Boolean logic</b> Boolean logic  <b>2.5 Programming languages and Integrated Development Environments</b> <ul style="list-style-type: none"> <li>Languages</li> <li>The Integrated Development Environment (IDE)</li> </ul>	EXAM PREP	

### BTEC Tech Award Digital Information Technology

Year	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6
Year 10	Component 1: LA-A, B Exploring User Interface Design Principles and Project Planning Techniques	Component 1: LA-C Exploring User Interface Design Principles and Project Planning Techniques	Component 3: Effective Digital Working Practices  LA-A	Component 3: Effective Digital Working Practices  LA-B	Component 2: Collecting, Presenting and Interpreting Data  LA-A	Component 2: Collecting, Presenting and Interpreting Data  LA-B
Year 11	Component 3: Effective Digital Working Practices LA-C	Component 3: Effective Digital Working Practices LA-D	Component 2: Collecting, Presenting and Interpreting Data  LA- C	Component 3 Revisit Revision	Component 3 Revisit Revision	

### BTEC L3 Ext Cert in ICT

Year	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6
Year 12	Using Social Media in Business  LA-A	Using Social Media in Business  LA-3	Information Technology Systems  LA-A,B	Information Technology Systems  LA-C,D	Information Technology Systems  LA-E,F	Website Development LA-A
Year13	Creating Systems to Manage Information LA-A.B	Creating Systems to Manage Information LA-C,D	Creating Systems to Manage Information LA-Revision Jan Exam	Website Development LA-B	Website Development LA-C	