

GCSE COMPUTER SCIENCE

Year 10

Component 1	Component 2
<p>Unit 1: Data Representation</p> <ul style="list-style-type: none">• Number bases (2, 10, 16)• Negative binary• Binary arithmetic and operations• Representing text• Representing images and audio <p>Unit 2: Hardware</p> <ul style="list-style-type: none">• CPU• Fetch-Execute Cycle• Primary Storage• Secondary Storage• Embedded Systems <p>Unit 3: Boolean Logic</p> <ul style="list-style-type: none">• Logical operators• Boolean expressions and simplification <p>Unit 4: Software</p> <ul style="list-style-type: none">• Operating Systems• Translators• Levels of programming language	<p>Procedural programming</p> <ul style="list-style-type: none">• Procedure• Iteration• Selection• Variables• Data types• Arrays and Lists• External files <p>GUI</p> <ul style="list-style-type: none">• Graphical Interfaces• Layout management

Year 11

Component 1	Component 2
<p>Unit 5: Communication</p> <ul style="list-style-type: none">• Topologies• Routing• Protocols• TCP/IP• Internet <p>Unit 6: Security</p> <ul style="list-style-type: none">• Data security• Cyber security <p>Unit 7: Legal and Ethical considerations</p> <ul style="list-style-type: none">• Data Protection• Computer Misuse• Copyright	<p>Exam Pre-release project</p>