



# Computing

<b>Awarding Body</b>	OCR	<b>Specification Code</b>	H446
<b>Type of qualification</b>	A Level		
<b>Entry Requirements</b>	Grade 5 in English Language and mathematics. Grade 4 in GCSE computer science is preferable		
<b>Course Content</b>	<p>Year 1</p> <p><b>Computing principles</b></p> <ul style="list-style-type: none"> <li>• System architecture</li> <li>• Operating systems</li> <li>• Data types/Boolean algebra</li> <li>• Legal and ethical issues</li> </ul> <p><b>Algorithms and Problem solving</b></p> <ul style="list-style-type: none"> <li>• Elements of computational thinking</li> <li>• Programming techniques</li> </ul> <p>Year 2</p> <p><b>Computer systems</b></p> <ul style="list-style-type: none"> <li>• Software and its development</li> <li>• Following algorithms</li> <li>• Types of programming languages</li> <li>• Using Boolean algebra</li> </ul> <p><b>Algorithms and Programming</b></p> <ul style="list-style-type: none"> <li>• Traditional questions concerning computational.</li> <li>• Algorithm design and efficiency thinking</li> <li>• Standard algorithms</li> </ul> <p><b>Programming project</b></p> <p>Students can select their own user-driven problem of an appropriate size and complexity to solve. Students analyse the problem, design a solution, implement the solution, and give a thorough evaluation.</p>		
<b>Assessment Method</b>	<p><b>Examination</b></p> <p>Computer systems 2h 30m -40%</p> <p>Computer systems 2h 30m- 40%</p> <p><b>Coursework</b></p> <p>Programming project - 20%</p>		
<b>Career Pathway</b>	<p>Jobs directly related to your degree include:</p> <p>Database Administrator, Information Systems Manager, IT consultant, IT technical support officer, Multimedia programmer, Network engineer, Systems analyst, Cyber Security analyst, Systems developer, and Games developer/designer.</p>		
<b>More information from</b>	<p>Mr T Worgan – Head of Computing</p> <p><a href="mailto:tworgan@newent.gloucs.sch.uk">tworgan@newent.gloucs.sch.uk</a></p>		