



Maths &  
Computing

## Course Details

# A Level Computer Science

<b>Exam Board</b>	AQA
<b>Syllabus title</b>	A-level Computer Science
<b>Course Code</b>	7516/7517
<b>Course Content</b>	<p>Programming and data structures, Data representation, Computer systems and uses of computers, Communication and Networks, Databases.</p> <p>Students further develop their skills in Python to include object orientated programming. They also learn how to use SQL.</p>
<b>Assessment and weighting</b>	<p>On screen exam 40% - This mainly tests the programming element of the course. Written Paper 40% - This examines the theory aspects of the course mentioned above. Coursework 20% - Students can use a language of their choice to develop a program or application in an area that interests them.</p>
<b>Trips/visits</b>	The department run a trip to Berlin and/or Budapest for students studying the course and to enable them to see the application of Computer science in a real world environment.
<b>Future opportunities/ career</b>	Programming, software engineering, gaming industry etc. There is also demand for programmers in medical research, entertainment and music industry etc.



Person  
Specification

# A Level Computer Science

	<b>Essential</b>
Qualifications/ School record	<ul style="list-style-type: none"><li>• 5 in English</li><li>• 6 in Computing and 6 in Maths</li><li>• Good attitude to learning in GCSE Computing</li></ul>
Attitude/Qualities	<ul style="list-style-type: none"><li>• Hard working</li><li>• Determined</li><li>• Keen to learn</li><li>• Attention to detail</li></ul>
Skills	<ul style="list-style-type: none"><li>• logical</li><li>• problem solver</li><li>• Independent thinker</li><li>• Organised</li></ul>
Experience	<ul style="list-style-type: none"><li>• Experience in writing Python code to solve simple problems</li></ul>
	<b>Desirable:</b>
Skills	<ul style="list-style-type: none"><li>• Strong logic skills</li><li>• Good written skills</li></ul>
Experience	