

<b>Course information</b>			
<b>Year: 12 Subject: Computer Science</b>			
<b>Subject</b>	Computer Science	<b>Subject leader contact information</b>	Mr S Clawson sclawson@cottesloe.bucks.sch.uk
<b>Examination Board</b>	OCR	<b>Specification Code</b>	H446
<b>Subject Content</b>			
<ul style="list-style-type: none"> <li>• Computing Mathematics</li> <li>• Software analysis and design - Project lifecycle, algorithm design and programming</li> <li>• Computing ethics and laws</li> <li>• Programming project</li> </ul>			
<b>Additional Equipment Needed</b>			
<ul style="list-style-type: none"> <li>• Python installed on a suitable computer (or a computer with a web browser for Trinket)</li> <li>• JavaScript development software installed on a suitable computer</li> </ul>			
<b>Assessment Details:</b>			
<p>Assessment is via continuous tasks to check and further learning during year one. Final assessment is via two exam papers, worth 80% of the overall marks and a final project worth 20%. The project is a programming task chosen by the student.</p>			
<b>To be successful students will need to be able to:</b>			
<ul style="list-style-type: none"> <li>• Think creatively to find the best solution to a given problem</li> <li>• Show resilience when working with code that may not always work first time</li> <li>• Be prepared to experiment with a number of ideas before selecting the best</li> <li>• Enjoy the challenge of creating computer code - Want to stretch this to include several programming languages</li> <li>• Be curious and adventurous when looking at how a computer could be used to solve problems</li> <li>• Be reflective and evaluative - Be able to critique their own and other's work in a constructive way</li> </ul>			
<b>What can I do to support my child at home?</b>			
<ul style="list-style-type: none"> <li>• Keep abreast of technology news - we will often discuss this in the class.</li> <li>• Consider signing up for CoderDojo or other computing groups</li> <li>• Encourage coding and experimentation with code at home - Help to identify suitable problems to solve with a computer</li> <li>• Consider providing ideas for a programming project</li> <li>• Provide access to the internet to help with homework</li> <li>• Consider having access to a BBC Microbit, Raspberry Pi or other low cost programmable computer to help provide access to different coding projects</li> </ul>			
<b>Recommended resources for the course:</b>			
<p><b>Websites:</b> <a href="https://www.teach-ict.com/2016/A_Level_Computing/OCR_H446/OCR_H446_home.html">https://www.teach-ict.com/2016/A_Level_Computing/OCR_H446/OCR_H446_home.html</a>, <a href="http://www.learnitwithdavo.co.uk/">http://www.learnitwithdavo.co.uk/</a>, <a href="https://www.computingatschool.org.uk/">https://www.computingatschool.org.uk/</a></p>			

**Books:**



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