

<b>Subject</b>	<i>ICT and Computing</i>
<b>Introduction:</b>	
<p>In ICT and Computing lessons students will learn how computers and computer systems work, they will design and build programs and they will understand a range of ways to use technology safely.</p> <p>Classes in KS3 and the ICT in KS4 are set with an academic subject which does vary between the years. The Computer Science option classes are mixed ability.</p> <p><i>Number of periods taught per week at each KS</i></p> <ul style="list-style-type: none"> <li>○ KS3 – 1 lesson per week</li> <li>○ KS4 – Computer Science 3 lessons per week as an option subject</li> <li>○ KS4 – ICT – 1 lesson per fortnight, year 11 short GCSE</li> <li>○ KS5 – 5 lessons per week</li> </ul> <p><i>Contact details</i></p> <ul style="list-style-type: none"> <li>○ <a href="mailto:ict@yateley.hants.sch.uk">ict@yateley.hants.sch.uk</a></li> </ul>	
<b>Course content:</b>	
<b>Year 7</b>	<ul style="list-style-type: none"> <li>• Hardware, input/output devices, software</li> <li>• Introduction to block and touch/develop programming using MicroBits</li> <li>• Introduction to flowcharts using Flowol</li> <li>• Introduction to text based programming using Python Turtle</li> <li>• Creating spreadsheets as models</li> </ul>
<b>Year 8</b>	<ul style="list-style-type: none"> <li>• Hardware, input/output devices, software</li> <li>• Binary, images and sound</li> <li>• Introduction to text based programming using Python Turtle</li> <li>• Extended spreadsheets, combo boxes, VLookups etc</li> <li>• Databases using MS Access</li> <li>• Networks, HTML and the internet</li> <li>• Simple Logic circuits</li> </ul>
<b>Year 9</b>	<ul style="list-style-type: none"> <li>• Simple Logic circuits</li> <li>• Solving problems using flowcharts and pseudocode</li> <li>• Solving programming problems using Python</li> <li>• Creating an app using App Inventor</li> <li>• Creating products for a marketing exercise</li> </ul>
<b>Year 10</b>	<ul style="list-style-type: none"> <li>• <b>ICT:</b></li> <li>• Internet Safety</li> <li>• Biometrics</li> <li>• GPS and its uses</li> <li>• Addiction to computers</li> <li>• Connecting to the internet</li> <li>• Choosing a device</li> <li>• Setting up online accounts</li> <li>• <b>Computer Science:</b></li> <li>• Theory topics for the OCR Computer Science GCSE</li> <li>• Preparation for the OCR Computer Science GCSE programming project</li> </ul>
<b>Year 11</b>	<ul style="list-style-type: none"> <li>• <b>ICT:</b></li> <li>• Theory topics for the WJEC ICT short GCSE</li> <li>• <b>Computer Science:</b></li> <li>• Theory topics for the OCR Computer Science GCSE</li> <li>• OCR Computer Science GCSE programming project</li> </ul>
<b>Year 12</b>	<ul style="list-style-type: none"> <li>• Theory topics for the OCR Computer Science AS level</li> </ul>

	<ul style="list-style-type: none"> <li>• Preparation for the OCR Computer Science A level programming project</li> </ul>	
<b>Year 13</b>	<ul style="list-style-type: none"> <li>• Theory topics for the OCR Computer Science A level</li> <li>• OCR Computer Science A level programming project</li> </ul>	
<b>Assessment:</b>		
<b>KS3</b>	<b>KS4</b>	<b>KS5</b>
<ul style="list-style-type: none"> <li>• Work is submitted most lessons and marked</li> <li>• Most topics are graded between 1-9</li> <li>• Topic grades are used to provide a final grade of the year</li> </ul>	<ul style="list-style-type: none"> <li>• Work is submitted most lessons and marked</li> <li>• A grade is give at each reporting point</li> <li>• <b>Computer Science GCSE:</b></li> <li>• Additional tests are taken at end of topics</li> <li>• Mock paper sat by students</li> </ul>	<ul style="list-style-type: none"> <li>• Work in lesson marked and discussed</li> <li>• Homework assessed</li> <li>• Programming expertise assessed on an ongoing basis</li> <li>• Mock papers sat by students</li> <li>• Detailed feedback given on the A level project at significant points in the project cycle</li> </ul>
<b>Assessment criteria</b>		
Ref Progress Grid		