



Everyone at Rushcliffe School will be given the chance to shine brightly

Preparing for Year 12 : (Subject) Computer Science.

We want you to begin your Year 12 Studies feeling prepared and confident. Therefore, you will be tasked with completing a range of Summer Work for the subjects you plan to continue studying. If you are unsure which subjects you might want to study, you should complete work for the subjects you are considering. This will help give you a “taster” of the subject, in place of the taster lessons you would normally be receiving face-to-face. **You should expect to spend a minimum of 15 hours on each subject.** All work should be submitted to your teacher in September, however not all will require feedback.

The tasks have been categorized here, however, they may be attempted in any order or simply completed in the order of the accompanying presentation.

Answers and evidence of work is to be completed in the Accompanying presentation.

<p>Revision of key knowledge and skills <i>This will ensure you do not forget some of the skills and knowledge developed during your GCSE studies</i></p> <table border="1"> <tr> <td>5: Key terms task</td> <td>2hrs</td> </tr> <tr> <td>6a: An introduction to the basics of programming tasks</td> <td>6hrs</td> </tr> </table>	5: Key terms task	2hrs	6a: An introduction to the basics of programming tasks	6hrs	<p>Key Skills Development <i>This will focus on ensuring you are continuing to develop the skills needed, particularly during this longer break from school</i></p> <table border="1"> <tr> <td>3: What is “computational thinking”?</td> <td>2hrs</td> </tr> <tr> <td>4: Note taking practice task</td> <td>1.5 hrs</td> </tr> </table>	3: What is “computational thinking”?	2hrs	4: Note taking practice task	1.5 hrs		
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<p>Or</p> <table border="1"> <tr> <td>6b Advanced Programming</td> <td>6 hrs.</td> </tr> <tr> <td>9: Systems architecture task- Looking under the hood of the processor.</td> <td>2hrs</td> </tr> <tr> <td>10 Memory task- Different types of memory</td> <td>1 hr</td> </tr> <tr> <td>11. Storage task- Types of secondary storage</td> <td>1hr</td> </tr> <tr> <td>12: Types of networks</td> <td>2hrs</td> </tr> </table>	6b Advanced Programming	6 hrs.	9: Systems architecture task- Looking under the hood of the processor.	2hrs	10 Memory task- Different types of memory	1 hr	11. Storage task- Types of secondary storage	1hr	12: Types of networks	2hrs	
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<p>Research and/or wider reading <i>An opportunity to begin looking in more depth at the subjects you have chosen, preparing for the greater independence required in Year 12</i></p> <table border="1" data-bbox="110 600 795 840"> <tr> <td data-bbox="110 600 657 680">1: "Tell me about yourself"- Why did you choose Computer Science?</td> <td data-bbox="657 600 795 680">.5 hrs</td> </tr> <tr> <td data-bbox="110 680 657 760">2: Independent research task, Emerging computer technology.</td> <td data-bbox="657 680 795 760">2 hrs.</td> </tr> <tr> <td data-bbox="110 760 657 840">7: Critical thinking task- Why is Computer Science important?</td> <td data-bbox="657 760 795 840">2hrs</td> </tr> </table>	1: "Tell me about yourself"- Why did you choose Computer Science?	.5 hrs	2: Independent research task, Emerging computer technology.	2 hrs.	7: Critical thinking task- Why is Computer Science important?	2hrs	<p>Submission Pieces <i>These pieces will be submitted to your teacher the first lesson in September for review and feedback</i></p> <p>The tasks in the outlying boxes are to be completed as part of a combined presentation which will be self assessed upon submission in September.</p> <p>Technical tasks will be assessed against objective criteria. Research tasks will be assessed for breadth, depth and structure.</p>
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2: Independent research task, Emerging computer technology.	2 hrs.						
7: Critical thinking task- Why is Computer Science important?	2hrs						
<p>Supra-Learning Opportunities <i>Activities which will broaden your knowledge and understanding of the wider world of your subject. Things to inspire and enjoy!</i></p>							
<table border="1" data-bbox="110 1381 1510 1436"> <tr> <td data-bbox="110 1381 1242 1436">8: Applying technical knowledge in context task- Augmented reality</td> <td data-bbox="1242 1381 1510 1436">1.5 hrs</td> </tr> </table>		8: Applying technical knowledge in context task- Augmented reality	1.5 hrs				
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