

# Computer Science – A Level

## **PURPOSE**

Computer Science is relevant to the modern and changing world of computing. This course will focus on programming, building on GCSE Computing and emphasise the importance of computational thinking as a discipline. There is an expanded maths focus, much of which will be embedded within the course. Computational thinking is at the core, helping students to develop the skills to solve problems, design systems and understand human and machine intelligence. This allows students to apply the academic principles learned in the classroom to real world systems in an exciting and engaging manner.

<b>BRIDGING TASK 1</b>	<b>BRIDGING TASK 2</b>
Explain the functions of different elements of a computer system	Write an algorithm
<u>RESEARCH – 30 MINUTES</u>  Your aim is to research and identify different elements of a computer system and be able to explain how they function and are used within computer systems. Research the follow components <ul style="list-style-type: none"><li>• CPU</li><li>• RAM</li><li>• Processor</li><li>• GPU (Graphics Processing Unit)</li><li>• Storage</li></ul>	<u>RESEARCH – 30 MINUTES</u>  Your aim is to research and identify an appropriate sorting algorithm for use in your program. Justify your choice of sorting algorithm
<u>EVIDENCE FINDINGS – 30 MINUTES</u>  Evidence and display your findings from the research into a Word document or PowerPoint presentation. Give a clear heading/title for each bullet point	<u>EVIDENCE FINDINGS – 30 MINUTES</u>  Write an algorithm that will sort a series of numbers. The program should request a series of numbers from the user and output the sorted list

**Submission date. First lesson of Computer Science yr12**