



AS/A Level GCE Computer Science



What will I do in this course?

This will depend on whether you do the AS or the full A Level...



... AS Level requires you to complete 2 units in Year 12



AS Level	01 Computing principles	02 Algorithms and Problem solving
What's It About?	It will cover the characteristics of contemporary systems architecture and other areas including the following: <ul style="list-style-type: none"> Operating systems Introduction to programming Data types, structures & algorithms Exchanging data & web technologies Using Boolean algebra Legal and ethical issues. 	Areas covered include the following: <ul style="list-style-type: none"> Elements of computational thinking Programming techniques Software development methodologies Algorithms Standard algorithms.
How's It Assessed?	1 hr 15min Exam	1 hr 15min Exam
What's It Worth?	50%	50%

...the full A Level requires you to complete 3 units over the two years



A2 Level	01 Computing principles	02 Algorithms and Problem solving	03 Programming project
What's It About?	In addition to the content covered at AS it will cover: <ul style="list-style-type: none"> Software and its development Types of programming languages 	In addition to the content covered at AS it will cover: <ul style="list-style-type: none"> Pattern recognition, abstraction and decomposition Algorithm design and efficiency 	Students select their own user-driven problem to solve. Students will need to analyse the problem, design and implement the solution and thoroughly evaluate.
How's It Assessed?	2hr 30min Exam	2hr 30min Exam	Coursework
What's It Worth?	40%	40%	20%



Progression onto the course will require at least 5 GCSEs, or equivalent, at grade C or above. You must achieve a B in GCSE Computer Science, a B in Mathematics & a C in English Language. Please talk to Miss Yousof in LF8 if you are interested in this subject.