

AQA Computer Science (A Level)

Why study Computer Science?

Studying Computer Science offers students the opportunity to develop skills that are fundamental to understanding logic and structure. The study of Computer Science encourages precision and accuracy, coupled with imagination and creativity. Students will develop skills in order to solve problems in innovative ways.

Computing and computer technology are part of just about everything that touches our lives. It is hard to imagine any job that doesn't require the ability to use computers, and in fact, there actually are more computing jobs/fibamqual@24.00fillTthefinGin diffecuniffec

Non-exam Assessment	Content
♦ 75 marks	The non-exam assessment assesses student's ability
◆ 20% of A Level	to use the knowledge and skills gained through the
	course to solve or investigate a practical problem.
	Students will be expected to follow a systematic
	approach to problem solving. You choose your own
	project and programming language.

What will I learn?

Students develop a rigorous understanding of theoretical programming principles and concepts, and investigate programming logic through a series of software problems sets. Classwork tasks intentionally develop students' accuracy and precision as a fundamental skill. Students are encouraged to persist independently via home learning to develop creative solutions, through regular programming problem sets. These tasks are oriented greatly around logic, and so students develop the ability to deliver accuracy and precision. There are twelve many areas of study that students will work through.

Which activities will I be engaged in during the course?

Students will develop sophisticated practical skills in varied applications of programming. The course has a strong practical nature, where students will develop solutions to demonstrate their understanding of the academic reasoning behind their designs. Students will be exposed to numerous programming languages, and approaches to software development.

How can I prepare for the course?

The following link will provide access directly to the AQA specification for this course: http://www.aqa.org.uk/subjects/ict-and-computer-science/as-and-a-level/computer-science-7516-7517

It is very important that you do not "forget" the knowledge and understanding you currently possess at the end of year 11. You should keep all notes from the GCSE course and continue to expand your programming knowledge during the summer to keep skills fresh in your mind.

Further information: Laura Greene (KS5 Computer Science)