

A Level Computer Science



Entry Requirements

GCSE grade 5+ in Maths and Computer Science.



Aims and learning outcomes:

The aims of this qualification are to enable learners to develop:

- an understanding of and ability to apply the fundamental principles and concepts of computer science including; abstraction, decomposition, logic, algorithms and data representation
- the ability to analyse problems in computational terms through practical experience of solving such problems including writing programs to do so
- the capacity for thinking creatively, innovatively, analytically, logically and critically
- the capacity to see relationships between different aspects of computer science
- mathematical skills
- the ability to articulate the individual (moral), social (ethical), legal and cultural opportunities and risks of digital technology.

Complementary Subjects

Maths, Physics

Future Opportunities

Having A level Computer Science is highly regarded when you venture into employment or to university. Having an A level Computer Science qualification opens you up to a world of possibility, with so many avenues and sectors you can get into. Computer Science will prepare you for one of the many courses available at university including computing, software, engineering, business and computing or computing graphics, amongst others.

As computers are such an integral part of the workplace in contemporary society, people with A level Computer Science skills are in an extremely high demand. Amongst the many career possibilities that are available to you with A level Computer Science include computing, analysis, computer programming, animation and many more. Alternatively, there are a number of students that go into careers unrelated to Computer Science but the skills they have gained are still utilised due to the increasing technological advances and computational thinking skills.