Computer Science

We all take the internet and computer games for granted, but at some point someone who studied computer science was involved in creating them. All around us is evidence of expertise in computing, not just in terms of how computers and programming work but the higher-level analytical skills required.

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.

A Level units studied

- Computer systems
  (written paper – 2 hours 30 minutes – 40%)
- Algorithms and programming
  (written paper – 2 hours 30 minutes – 40%)
- Programming project
  (controlled assessment – 20%)

Assessed in year 13.
Assessed by exam and externally moderated project.

This course will give suitable course opportunities at university such as:

- BSc Computer Science
- BSc Computing
- BSc Multimedia Computing

Opportunities

A Level computer science is for students who are looking for a career in program development, systems analysis and network management.