

# Computer Science



**Exam Board** AQA

**Qualification** GCE AS Level / GCE A Level Computer Science

**Entry Requirements** GCSE Computer Science at grade B; GCSE Maths at grade C, GCSE English at grade C

## Content (Outline of Course)

Fundamentals of programming  
Fundamentals of data structures  
Fundamentals of algorithms  
Theory of computation  
Fundamentals of data representation  
Fundamentals of computer systems  
Fundamentals of computer organisation and architecture  
Consequences of uses of computing  
Fundamentals of communication and networking  
Fundamentals of databases  
Big Data  
Fundamentals of functional programming  
Systematic approach to problem solving

## Assessment

**AS Level:**  
Paper 1 – On Screen Exam- 1.5 hours – 50% of AS  
Paper 2 – Written Exam- 1.5 hours – 50% of AS

**A2 Level:**  
Paper 1 – On Screen Exam- 2.5 hours – 40% of A-Level  
Paper 2 – Written Exam- 2.5 hours – 40% of A-Level  
Non-exam Assessment - 20% of A-Level

## Careers Guidance

The Computer Science course allows students to develop high level practical skills that are very much in demand in the modern workplace. The UK, and in particular the North East has a large IT industry and there are many opportunities available. Students may go on to study a variety of university courses such as Computer Science or Information Technology. Alternatively, students may also decide to apply for apprenticeships, with many available from large local employers such as Sage and Hewlett Packard.