



Computer Science A Level

Exam Board: OCR

Entry requirements: Grade 5 in GCSE Computer Science (if studied at GCSE), Grade 5 in Maths

Intent

Who is this course for?

It is ideal for students who:

- are looking to develop an advanced understanding of computer science
- want to apply their coding ability to solve real-world problems
- are looking at a computing orientated degree
- are aiming to work in the computing industry

Subject Content

Paper 1

1. The characteristics of Contemporary Processor
2. Software and Software Development
3. Exchanging Data
4. Data Types, Structures and Algorithms
5. Legal, Moral and Cultural Issues

Paper 2

1. Computational Thinking
2. Problem Solving and Programming
3. Algorithms

Implementation

Assessment Methods

A Level

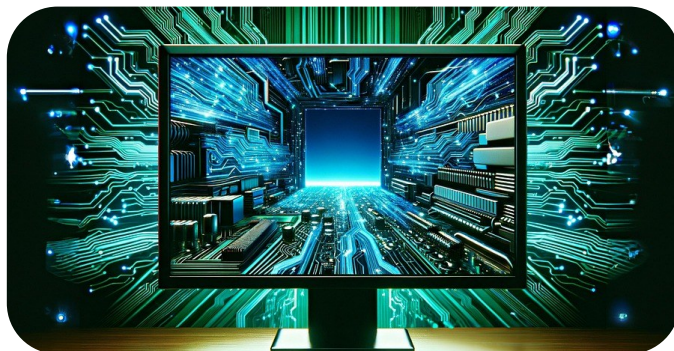
Paper 1: This paper tests a student's ability in theory, as well as their theoretical knowledge of computer science from subject content.

- Written exam: 2 hours 30 minutes
- 40% of A Level

Paper 2: This paper tests a student's ability to answer questions from subject content on Algorithms.

- Written exam: 2 hours 30 minutes
- 40% of A Level

Non-exam assessment: Assesses a student's ability to use the knowledge and skills gained through the course to solve or investigate a practical problem. 20% of A Level.



Impact

Skills gained and enrichment opportunities

Our A Level will develop a student's ability to:

- Think creatively, innovatively, analytically, logically and critically
- Apply skills in, and develop an understanding of computing (including programming) in a range of contexts to solve problems
- Delve into producing graphical user interfaces and object-orientated programming solutions

By completing a programming project, students will have the opportunity to create a substantial piece of software using design methods, which they can use to display their skills and talents.

Further information contact

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