

# A Level Computer Science



## Course description

Awarding Body: AQA

## Examinations

2 Papers

1 Project

### Paper 1:

1 Hour 45 Minutes. Onscreen exam

Programming and Theoretical knowledge

### Paper 2:

1 Hour 30 Mins; Written paper

Theory knowledge

## Non Examined Assessment

The non-exam assessment (NEA) is a computing practical project.

## Course content:

- 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
- Non-exam assessment - the computing practical project

## Entry requirements

Grade 7, 8 or 9 in Maths and English GCSE

No requirement to have studied Computing or ICT at GCSE

## Further information

Advances in computing are transforming the way we work and the new Computer Science specifications are changing with the times. AQA have worked closely with teachers to develop this popular qualifications, refreshing the content where needed but retaining the most popular and effective aspects of the previous specifications.

This qualification is now up-to-date and focuses on the knowledge, understanding and skills students need to progress to higher education or thrive in the workplace.