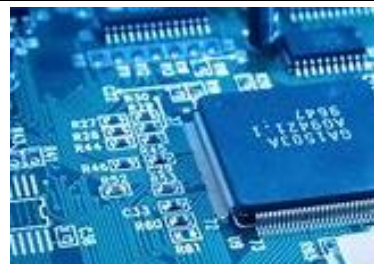


# Computer Science



<b>Subject Leader</b>	Les Mugridge
<b>Subject Teacher(s)</b>	Les Mugridge, Paul Reed
<b>Course Title</b>	GCSE Computer Science: AQA
<b>Website</b>	<a href="#">AQA   Computer Science   GCSE  </a>

## Course Overview

Students studying GCSE Computer Science will be taught:

- How to design and structure efficient and effective programs in Python
- How to debug and test programs
- The fundamentals of data representation
- How computer systems and computer networks function
- The importance of cyber security
- How to design and use databases and SQL
- The ethical, legal and environmental impacts of digital technology on wider society

## Assessment

### Paper 1: Computational thinking and programming skills

This paper assesses: computational thinking, code tracing, problem-solving, programming concepts including the design of effective algorithms and the designing, writing, testing and refining of code.

#### How it's assessed

- Written exam: 2 hours
- 90 marks
- 50% of GCSE

### Paper 2: Computing concepts

This paper assesses: the fundamentals of data representation, computer systems, computer networks, cyber security, databases and SQL and the ethical, legal and environmental impacts of digital technology on wider society.

#### How it's assessed

- Written exam: 1 hour 45 minutes
- 90 marks
- 50% of GCSE

## Additional Information

Computer Science GCSE has a natural progression to further study either on the A Level course in Computer Science or similar courses in colleges. Computer Science and its associated subjects offer an excellent career path in the UK. These areas include: engineering, financial and resource management, science and medicine.

Specialist Computer Science courses are available at most universities and colleges, these include: Computer Science, Artificial Intelligence, Robotics, Security, Networking and Hardware Development.