

Computer Science



GCSE in Computer Science comprises two units:

What is Computer Science?

This course gives an insight into a range of computing systems, including an understanding of the principles of programming and the solving of problems. It is designed for students who are interested in learning about the computing sector and the fundamentals of Computer Science.

Computers pervade every aspect of modern life. The microprocessor which lies at the heart of every computing system is found absolutely everywhere. Modern society simply could not function without computers, but few people really understand how it all works. Computer Science will give you a deep insight and understanding into how a computer works.

Paper 1: Computational Thinking and Problem Solving

In preparation for Paper 1 you will design, write, test and refine program code in python

Areas covered:

- Fundamentals of Algorithms, Programming

Paper 2: Computing Concepts

Areas covered:

- Fundamentals of Data Representation
- Computer Systems
- Fundamentals of Computer Networks
- Cyber Security
- Ethical, Legal and Environmental Impacts of Digital Technology on Wider Society, including Issues of Privacy
- Relational databases and structured query language (SQL)

Paper 1: Computational Thinking and Problem Solving	Paper 2: Computing Concepts
Assessment / Assessing programming and practical problem solving skills Written examination 2 hours 50% of GCSE	Assessment Written examination 1 hour 45 minutes 50% of GCSE