GCSE Computer Science is the perfect complement to Mathematics and Science options, helping you develop a range of creative problem solving skills and an in-depth knowledge of how computers work. This is a hands-on course, programming, researching and discovering the fascinating world of computers, and cyber security. You will find that working with computers is exciting, challenging and where you will learn valuable skills for your future

Course Content

Computer Systems

You will learn about computer systems, memory, storage, networks, security and ethical, legal, cultural and environmental concerns.

Computational Thinking, Algorithms and Programming

You will learn about algorithms and programming, computational logic, translators and data representation.

Programming Project

You will develop your programming skills to design, develop, test and evaluate your own computer program to complete a set brief from the exam board.

Assessment

100% Examination:

Paper 1 (50%)

Computer Systems

Paper 2 (50%)

Computation thinking and programming

Subject Specific Skills

To achieve your full potential and succeed on this course, you need to have developed these skills:

• You like switching between hands-on practical skills and computing theory

• You enjoy subjects such as Maths, Science and D&T

• You are able to work well within a team by listening to the opinions and ideas of others

• You will learn to analyse and evaluate, making reasoned judgements and present conclusions

• You will able to think logically to solve interesting problems using computer programs

• You enjoy problem solving and computational thinking

This subject works well with…

All subjects work well with our Computing course.

No matter what route you take in life you will increasingly need to have an understanding of computers and programming. Courses that complement this one particularly well are: Mathematics, Science and Product Design.

Future Pathways

This course provides students with many opportunities. The subject is also ideal in preparing you for jobs that directly involve ICT, such as App Developer, Games Developer, Software Engineer or IT Technician.