



Computer Science

(GCSE)



Teacher Contact: Mr Boylan

Why study Computer Science?

GCSE Computer Science develops your understanding of current and emerging technologies, how they work, and applying this knowledge and understanding in a range of contexts. You will be using different programming languages to design write and test computer programs to solve specific problems.



Most students already know how to use a wide range of programs on computers. GCSE Computer Science will introduce you to what goes on 'behind the scenes', enabling you to understand how the computer actually works when a program is running. GCSE Computer Science is excellent preparation for A Level Computer Science. There is a growing demand for IT professionals who have programming skills.

What key knowledge, concepts and skills will I learn?

Computer Systems and Programming – By the end of this course you will be able to design and create apps, websites, programs and games for any project that you want. We look at the best way to create these and the industry practices that make these systems run well and secure.

Practical Investigation – A lot of this course will include project work and you will be expected to work outside of the classroom to complete all kinds of tasks and problems.

What programming languages will I learn?

You will learn a range of programming languages from Python to write programs, Website creation with HTML, CSS and JavaScript. We will also look at Artificial Intelligence languages such as SQL.

What attitudes and qualities are required to do well?

You will be a confident and able mathematician who enjoys problem solving activities, or who wants to go on to study Computer Science at university.

How will I be assessed?

- 50% Practical written paper examination – end of year 11
- 50% Theory written paper examination – end of year 11

Which other subjects link into this course?

- Cyber Security
- Graphic designer
- Computer programmer
- Games Creator
- Systems Analyst
- Software Analyst
- IT Consultant
- Network Manager
- Website programmer
- Engineer
- Teacher
- 85% of all Science and Mathematics courses at University now have compulsory programming as part of the course!



For more information you might like to visit:

<http://www.ocr.org.uk/qualifications/by-type/gcse/computing/>

