COMPUTER SCIENCE
A Level

PARRS WOOD SIXTH FORM COLLEGE
Big enough to thrive, small enough to care

Why Study This Course?

- Excellent graduate prospects in a wide range of careers.
- Relevant to nearly every industry.
- Opportunities for highly paid, competitive roles.

Career Progression

A Level Computer Science prepares students for higher education or employment in a wide range of fields, including:

- Computer Programming
- Engineering and Sciences
- Business, Law, Medicine, Politics
- Data Science and Artificial Intelligence

What You'll Study

Component 01: Computer Systems

- Characteristics of contemporary processors, input, output and storage devices
- Types of software and methodologies used in software development
- Data exchange between systems
- Data types, data structures and algorithms
- Legal, moral, cultural and ethical issues

Component 02: Algorithms and programming

- Elements of computational thinking (abstraction, decomposition, logic, etc.)
- Problem solving and programming techniques
- Algorithms for describing and solving problems

Component 03: Programming Project
- An independent project where students apply computational thinking
- Analyse, design, develop, test and evaluate a coded solution
- Work in a suitable programming language of your choice

Why I Chose Computer Science

"Why I am taking Computing at A level – Aside from the fact that there are a wide range of jobs out there related to computing, I have decided to take Computing at A level to learn new skills and also to gain further knowledge about the career path I want to go down in the future. Computing requires you to think logically as well as creatively when you are solving problems so this is therefore the ideal subject for me to study. I am also looking forward to learning a range of computer programming languages."
- Will

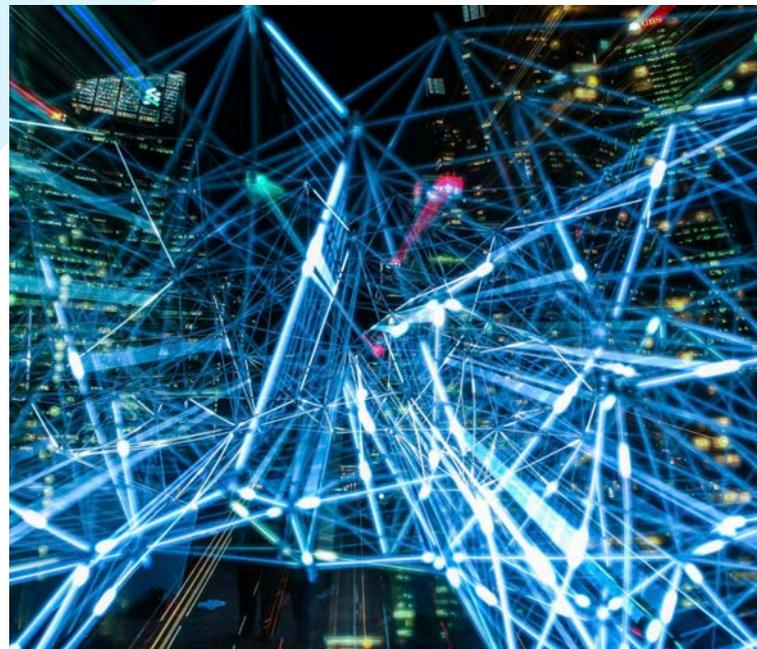**If you like this subject you may also like:**

Maths, Sciences, Business, BTEC AAQ IT, Economics

Exam Board: OCR

Why Parrs Wood?

Computing at Parrs Wood brings innovation, creativity and enjoyment to study while offering you the skills to be at the forefront of whichever path you choose.

Industry links are of central importance within the study of Computing. Here at Parrs Wood we are working hard to cement strong links to the Manchester business world and local businesses. We work hard to immerse you in real life industry experiences.