

COMPUTER SCIENCE

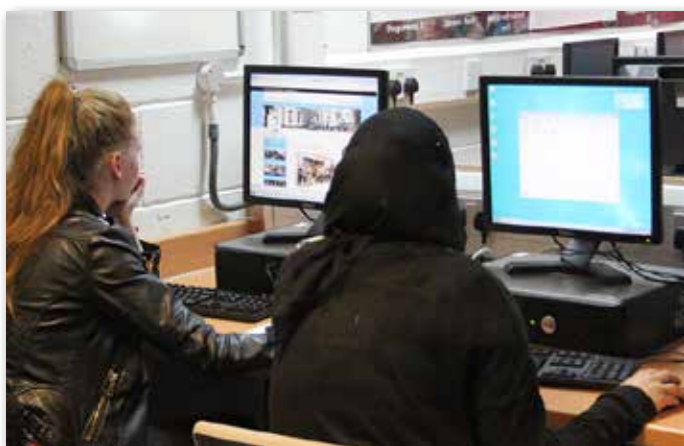
A Level

Why choose A Level Computer Science as an option?

Studying Computing at Parrs Wood will challenge how you view the world, for example at some stage in the future we may be computing with DNA, with computer circuits made of genes. This then poses the question: Does the natural world 'compute'?

There are many reasons to study Computer Science, such as:-

- The digital age needs computer scientists
- Computer science students have excellent graduate prospects
- Computer science jobs are highly paid
- Computer scientists are needed in every type of industry
- Opportunities to work abroad



Provisional Entry Requirements

At least a B in GCSE Additional Science or a B in Triple Science as well as a B grade in GCSE Maths.

GCSE Computer Science is preferable but not compulsory



What You'll Study

Throughout the two year course you will demonstrate your knowledge of the fundamental principles of the subject with a focus on programming; the hardware and software aspects of computing; computational thinking and creating a computer based programmed solution to a problem solving exercise.

Teaching Styles:

Within A Level Computing you will use a variety of resources including:

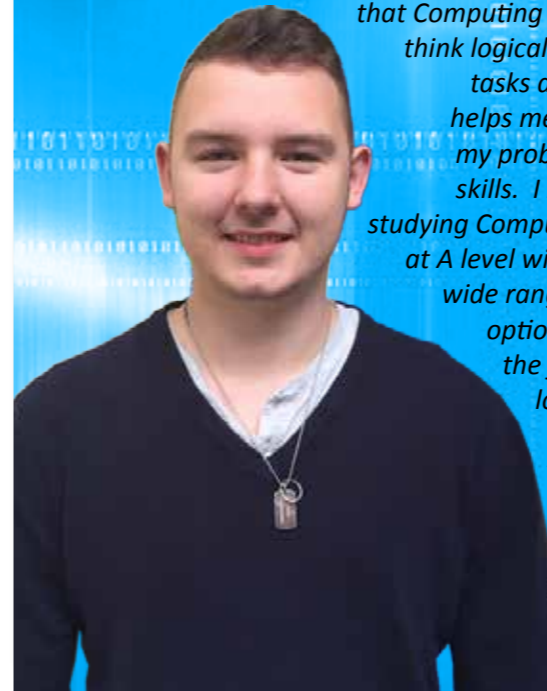
- Python programming language
- Database management software
- Web development software
- Computer components to build a PC



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Marcin

"I have decided to study Computing at A level because I really enjoy the challenge that the GCSE course presents. This year I have found that Computing helps me to think logically about my tasks and this also helps me to develop my problem solving skills. I believe that studying Computer Science at A level will open up a wide range of career options for me in the future and I look forward to starting the course."



Ideas for Progression

A Level Computing prepares students to go on to higher education courses or employment where the knowledge of Computing is a requirement. Typical career paths include Computer Programming, Medicine, Law, Business, Politics, Engineering or the Sciences.



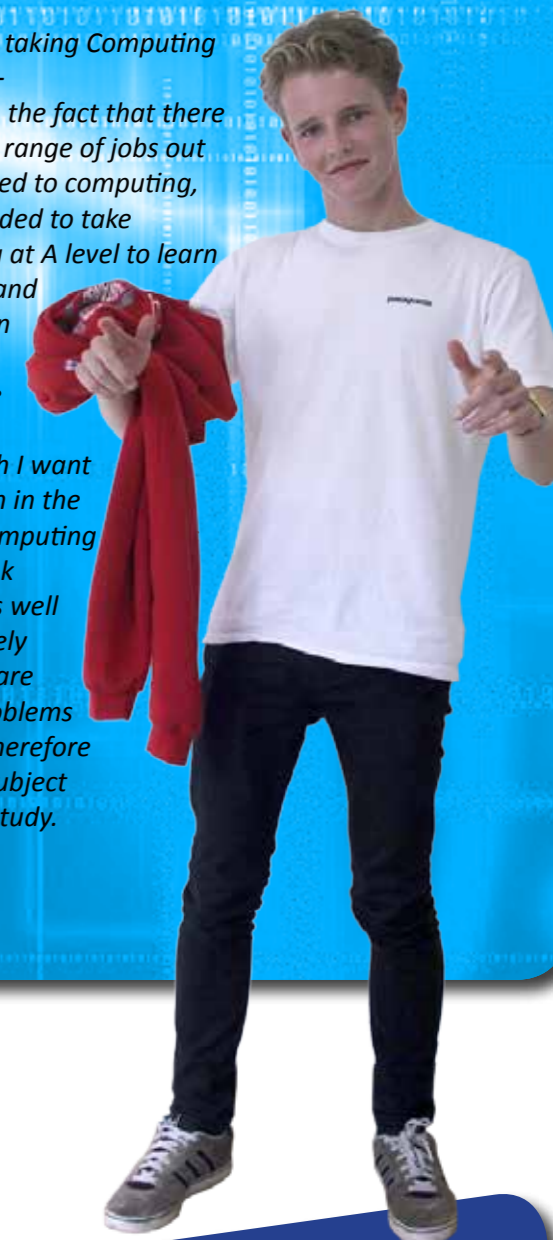
Enrichment

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.

Will

"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 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



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.

To find out more you can visit our website: www.parrswood.manchester.sch.uk/sixthform
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