A Level Computer Science at Convers Sixth Form

Computer Systems

The course will explore the characteristics of contemporary systems architecture and other areas including the following:

Software and its development through different types of programming languages

- Data types, representation and structures
- Exchanging data and web technologies
- Using Boolean algebra
- Legal, moral and ethical issues.

Algorithms and Problem solving



We will also look at how computers think, exploring all elements of Computational thinking, the heart of the subject and how to apply these to solve problems. From this, we look at the importance of algorithms in defining efficient solutions to problems.

You will then be taught program techniques and how to write programming solutions to solve these problems.

Programming Project

In computing, you will bring all this learning together into a practical based project, where you will apply previous knowledge to create a programmed solution, which meets the needs of a specific client.



Assessments

You will sit two exams at the end of year 13 each worth 40% towards your overall grade

You will complete coursework worth 20% of the grade

Opportunities and experiences in IT

- 1. Be able to tailor a coursework to your own business.
- 2. Primary Links to offer potential placements.





What can you do with A-Level Computing?

Careers include:

Computer Hardware Engineer

Computer Systems Analyst

Web Developer

Games Designer

Software Engineer

Student Voice—Why Study Computing?

"Computing is one of the most technically challenging subjects available but it's because of this that it's so good. Working through problems that are seemingly impossible to create programs for, is one of the greatest self satisfactions A-level can offer. Not only this but with technology proving to have an expanding role in the society of today and tomorrow, understanding the systems we use and being able to create code for such systems is one of the most valuable skills available in today's already competitive job markets."

"Computing makes you think outside the box and I enjoy problem solving. I enjoy solving problems and wanted to learn more about something that affects our lives a lot. Studying computing is important Computers are all around us..."

"I enjoy how computer science forces you to think outside of the box, to solve real life problems. I picked computing because it's a constantly expanding industry; but also I enjoy learning about the workings of computer systems in depth. Studying computing is important to me because I understand that it's the future for a large variety of employment opportunities and will continue to impact the world both socially and economically for decades to come."

"I enjoy computing because of the logical problem solving involved in all aspects and my keen interest for programming. The decision to study computing was simple; everything that surrounds us on a day-to-day basis is based around computing, whether it be an iPhone, or the brand new FIFA..."

IT Exam Board: OCR

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