COMPUTER SCIENCE?

If you take a moment to consider a world without computers, you will begin to understand why developing your knowledge of the world of computing has become such a critical success factor in modern life.

WHAT WILL I STUDY?

A WJEC GCSE in Computer science will help you to make the most of the power of computers, from understanding how they work, to using programming skills to create your own applications and solutions to problems in the world around you.

Unit 1: Understanding Computer Science -

This unit helps you to build your understanding of practical aspects of computing such as hardware, software, systems, networks and communication, whilst developing your ability to plan, manage and deliver computer-based solutions for everyday needs and problems.

Unit 2: Computer Programming –

This unit gives you the opportunity to develop your programming skills, before using them to create a solution to a real-world problem.

HOW WILL I BE ASSESSED?

Unit 1: Understanding Computer Science
Assessed by on-screen examination
Duration: 1 hour 30 minutes
50% of qualification
80 marks

Unit 2: Computer Programming
Assessed by on-screen examination based on a pre-released brief
Duration: 2 hours
50% of qualification
80 marks

WHAT SKILLS WILL I DEVELOP?

GCSE Computer Science will help you to:

- Understand and apply principles and concepts of computer science
- Develop your practical programming skills
- Develop skills in computational thinking
- Analyse problems in order to develop and implement strategies to solve them
- Develop your project management skills
- Improve your logical and mathematical thinking skills
- Improve your collaboration and team-working skills
- Understand the social, professional, ethical, environmental and legal dimensions of computer-based systems

CAREERS IN COMPUTER SCIENCE

Computers are everywhere – Whilst there is a huge range of opportunities in the world of computers and programming itself, it is equally true that computers are transforming just about every aspect of life as we know it. Therefore, whether you choose to specialise in computing, or use your computing knowledge to improve your performance in other areas, choosing to improve your computing skills will never be a bad decision.

Examples of Computing careers

- Web development
- Artificial intelligence and LLM development
- Project management
- Social media platforms and Marketing
- Systems planning and analysis
- Games and interactivity systems
- Financial and security systems
- Robotics and the Internet of Things

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