

Computer Science

Subject Description

GCSE Computer Science is a highly academic and rigorous course requiring dedication and commitment. Computer science has deep links with mathematics, science, design and technology, and provides insights into both natural and artificial systems. The course will develop learner's understanding of emerging technologies, and computer programs. They will use computational thinking to solve problems and develop coding skills. Computer Science will help learners to gain an insight into industry related sectors. It will prepare candidates to make informed decisions about further learning opportunities and career choices.

Specification Details

Edexcel GCSE Computer Science

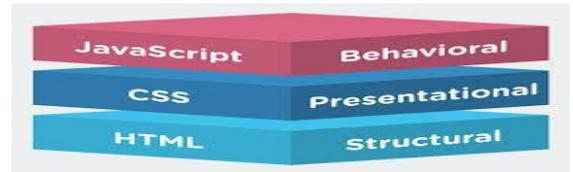
The course is made up of 2 end of year 11 written exams (50% each) and 1 controlled assessment based on programming to be completed in class time.

For more information:

<http://qualifications.pearson.com/en/qualifications/edexcel-gcses.html>

Course Requirements

- Learn how to code in computer programming languages such as Python, SQL, HTML and CSS.
- Develop their understanding of current and emerging technologies, understand how they work and apply this knowledge and understanding in a range of contexts.



- Acquire and apply knowledge, technical skills and an understanding of the use of algorithms in computer programs to solve problems using programming.
- Use their knowledge and understanding of computer technology to become independent and discerning users of IT, able to make informed decisions about the use and be aware of the implications of different technologies.
- Evaluate the effectiveness of computer programs / solutions and the impact of, and issues related to the use of computer technology in society.

Additional Information

If you are considering taking an A-Level in any of the Computer Science / ICT subjects or are considering a career in a related profession such as a Software Developer, then this course will give you the background knowledge and understanding.

Did you know?

By 2020, current government projections show that more than 800,000 high-end computing jobs will be created in the economy, making it one of the fastest growing occupational fields.

