A Level: Computer Science
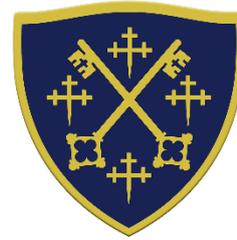
Specification: OCR

Computer Science is a subject that will above all else be relevant to the modern and changing world of computing. It is an intensely creative subject that combines invention and excitement and can look at the natural world through a digital prism.

Students will develop an ability to analyse, critically evaluate and make decisions. The project approach is a vital component of 'post-school' life, and is of relevance to further education, higher education and the workplace

Subject Content

Paper 1 Computer Systems - Hardware & Software (Y13), Data Representation & Structures (Y12), Computer Networks (Y13), Web Technologies (Y12), System Architecture & Operating Systems (Y13), Boolean Algebra (Y12), Legal, Moral, Cultural & Ethical Issues (Y13)

Paper 2 Algorithms and Programming
Computational Thinking (Y12), Problem Solving & Algorithm Design (Y12), Programming Techniques (Y12), Standard Algorithms (Y12), Computational Methods (Y12), Software Development Lifecycle (Y12)

Exam Assessment

Paper 1 Computer Systems
written paper: 2 hours and 30 minutes
40% of total A-Level

Unit 2 Algorithms & Programming
written paper: 2 hours and 30 minutes
40% of total A-Level

Unit 3 Programming Project
Programming project on an area of interest in the computing field.
Non-Exam Assessment
20% of Total A-Level

Enrichment
Guest speakers are invited into school.

Online Webinars.

Competitions (Astro pi, Bebras)

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