

GCSE Computer Science @ Eaton Bank Academy

Examination Board : OCR Computer Science (9-1) J276

Computer Systems (01)

Written examination 80 marks, 1.5 hr, 50%

Introduces students to the central processing unit (CPU), computer memory and storage, wired and wireless networks, network topologies, system security and system software. It also looks at ethical, legal, cultural and environmental concerns associated with computer science.

The course is taught over three years. In the first year and most of the second year, you will learn the principles of computational thinking and to write simple computer programs in a programming language called Python. During the remainder of the second year and the third year, you will learn theory whilst you are practicing your coding skills.

Algorithms and Programming (02)

Written examination 80 marks, 1.5 hr, 50%

Students apply knowledge and understanding gained in component 01. They develop skills and understanding in computational thinking: algorithms, programming techniques, producing robust programs, computational logic, translators and data representation. The skills and knowledge developed within this component will support the learner when completing the Programming Project.



Resources

[@ebacomputing](http://the.computing.cafe/@ebacomputing)
[@compinsch](http://the.computing.cafe/@compinsch)

Programming project (03)

Non-exam assessment. Requirement of the course but does not count towards the examination result

Students use OCR Programming Project tasks to develop their practical ability in the skills developed in components 01 and 02. They will have the opportunity to define success criteria from a given problem, and then create suitable algorithms to achieve the success criteria. Students then code their solutions in a suitable programming language, and check its functionality using a suitable and documented test plan. Finally they will evaluate the success of their solution and reflect on potential developments for the future.