Computer Science

EBACC GCSE

Course Overview

Students taking the course will be made to think about how technology is created, how

algorithms create computer codes and the importance of cyber security in the real world.

They will be taught to develop their critical and evaluative skills to form opinions on

some of the moral implications of computing in the modern age.

Students will gain an in depth understanding of how a computer works, thinks and how

they can programme for it. They will develop and have a deep knowledge of hardware,

including storage, processes, memory and networks. They will also become skilled at

analysing problems in computational terms including designing, writing and debugging

programmes. Students will learn data handling in a real-life context, and they will

develop a knowledge of cyber security and the social, ethical and legal impact of

computing in the world.

Within the course, students can expect to:

* Develop critical thinking, analysis and problem-solving skills
* Look at the impact of computer science on society
* Learn the Python programming language

Examination Board and Assessment

AQA Examination Board – Specification 8525

Paper 1 Computational Thinking and Problem Solving

Written examination

1 hour 30 minutes 50%

Paper 2 Computing concepts

Written examination

1 hour 30 minutes 50%

Is this course right for me?

This course requires strong literacy and very strong mathematical skills due to the coding

and programming elements of the course. Students interested in working in the IT

industry will find this course interesting and challenging.

This option is by invite only due to the academic demands of the course.