



Key Stage 4 Core Curriculum and Option Subjects

AQA Computer Science

Students will follow the AQA GCSE Computer Science specification.

This is a rigorous and challenging qualification that aims to give students a thorough understanding of computational principles. Students will have the opportunity to build their own applications (including those for mobile/tablet) and develop a greater awareness of the rapidly changing computing field. Content covered is wide spread and includes: Software development, robotics and computer structure.

This is a high intensity, mathematically and logic driven course that requires an aptitude and a methodical approach to solving problems. Students must be willing to invest their time outside of school hours in order to develop their generic I.T based skills.

Progression

The course offers a multitude of progression opportunities including: further chance to study Computing/Computer Science at A level, apprenticeships or HND courses in a niche area of computing, i.e.(software engineering.)

Or even, the knowledge to become the C.E.O of your own company!

For Example:

Mark Zuckerberg (Facebook Creator) studied Computer Science at Harvard University.

Sergey Brin (Google Co-Founder) studied Computer Science at Stanford University.

Course Content

Component 1 – Practical Programming (50 Hours Controlled Assessment)

Component 2 – Computing Fundamentals (1 Hour 30 Minute Examination)



Assessment

The course consists of two core components, (controlled assessment & an examination.)

Students will have fifty hours of controlled assessment to create two tasks from a choice of four. Students will be given a problem and will need to code a solution independently. Tasks are extremely engaging and include contexts such as: Gaming, web development & Android/IOS development.

The examination element covers computing fundamentals such as a computer structure, data representation and networking.

Students support and direction is available continuously throughout the duration of the course by specialist subject staff.