



# COMPUTER SCIENCE

## A LEVEL

### COURSE TITLE

A level Computer Science

### EXAM BOARD

OCR

### METHOD OF ASSESSMENT

Examination and coursework.

### KEY TOPICS

The characteristics of contemporary processors, input, output and storage devices.

Exchanging data.

Data types, data structures and algorithms.

Legal, moral, cultural and ethical issues.

Elements of computational thinking.

Problem solving and programming.

### COURSE HIGHLIGHT

Always a popular course, we continue the journey from GCSE by looking in greater depth at the technologies used in modern computing. We investigate both hardware and software, discovering how the parts of a computer work together to form a cohesive system, and we expand our knowledge of software development through the use of Visual Studio and a range of other development tools. We also look at modern encryption systems, but look back at where it all started with the unsung codebreaking heroes of Bletchley Park during WW2 – at some point in the course we hope to travel down to see how the Enigma code was broken and possibly fit in a visit to the National Computing Museum. Plenty to pique your interest!

### CAREER LINKS

Software Engineer

iCloud specialist

AI Programmer

Tools Developer

Games Systems Developer