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## Subject Guides



## A Level Computer Science





# A Level Computer Science

## Introduction

The A-Level course is designed to give those students who have completed the GCSE Computer Science qualification a greater depth and insight into how computers actually work. Students who have completed the qualification already have the necessary foundations on which to build. Before the course, students will be given summer work to complete in order to prepare for the course and it will be the expectation that this work is completed.

## What You Will Learn

The course will explore:

- Fundamentals of programming and data structures
- Systematic approaches to problem solving
- Theory of computation
- Fundamentals of data representation, computer systems, organisation and architecture
- Fundamentals of communication and networking

## Where It Can Lead To

Students with Computer Science qualifications have many options when it comes to careers as they will find themselves skilled to work in a continually growing market, both in the UK and abroad. Software development (online and offline) is an obvious choice but other sectors including devising new ways of using computers, solving computational, mathematical and scientific problems and planning and organisation organisational computer infrastructures are all popular choices.