



South  
Nottinghamshire  
Academy

## A-Level Computer Science

### Why Computer Science?

We now live in a world where we are reliant on technology and computers to do everyday tasks, so why would you not want to study what the world is changing to? Studying Computer Science at A-Level enables users to solve complex and challenging problems which can lead to lucrative careers. The course offers great opportunities to not only collaborate with others but also have individual successes. You are able to be creative with your programming skills and be innovative with your ideas.

### What can I expect?

Students will develop the capacity to think creatively, innovatively, analytically, logically and critically. Pupils will be expected to abstract and decompose a problem independently through algorithmic thinking. Computer science consists of three elements, 2 of which are exam based;

- Paper 1 (Computer systems )
- Paper 2 (Algorithms and programming )
- Independent Programming Project

### What do I need?

Having achieved a grade 5 in GCSE Computer Science and Maths.

### What about the future?

As technology is advancing, careers within the IT industry are in high demand, with only a small percentage of people holding the sufficient skills and knowledge. A computer scientist can work in just about any industry. These days, many companies have some sort of computer-related requirement. Studying this subject will put you in a massive advantage when it comes to working in the IT industry