



The start of year 10 sees you start your journey in GCSE Computer Science. This year, you will be split taught, covering both component 1 and 2 simultaneously. This will allow you to develop your skills in both the theory and practical side of Computer Science. You will look at topics such as systems architecture, memory and storage whilst also looking at algorithms and programming techniques.

See below for more details

Year 10 Computer Science

Term 3:

System security and software

You will learn:

- Security threats
- Spotting vulnerabilities
- Types of software and their purpose

Producing robust programmes

- Input validation
- Design considerations

Term 1:

Systems architecture, memory and storage

You will learn:

- The purpose of the CPU
- The names and purposes of other registers in the CPU
- The different types of storage

Algorithms

- Computational thinking
- Searching and sorting algorithms

Term 2:

Memory and storage continued & computer networks

You will learn:

- About LANS and WANS
- Factors that affect network performance
- Network hardware

Algorithms continued

- Testing and debugging
- Trace tables

