

**Overview:**

Year 12 sees the start of your journey A Level Computer Science. You will begin to delve deeper into the key skills you developed during GCSE Computer Science, as well as taking them to the next level. A Level Computer Science also sees the introduction of a programming project, worth 20% of your final grade.

See below for more details

Year 12– Computer Science

Term 3:**Data types, data structures and algorithms**

In this unit, you will delve deeper into Boolean algebra, binary numbers and types of data.

Legal, moral, cultural and ethical issues

In this unit you will look at legislation related to computers, as well as moral issues involving computers in various settings.

Programming project

In this term, you will be introduced to your programming project

Term 1:**The characteristics of contemporary processors, input, output and storage devices**

In this unit, you begin to look at the structure of a processor, the types of processors there are as well as how different inputs and outputs can be applied to different problems/tasks

Software and software development

In this unit, you delve deeper into types of software, application software and how each software can be applied to a specific task

Term 2:**Exchanging data**

In this unit, you delve deeper into networks, encryption and hashing, databases and web technologies, such as JavaScript, HTML and CSS. You will take a deeper look at LANS and WANS, and how data packet switching works.

