Why study GCSE Computer Science?

A modern course for a modern world that has real relevance today. The course will give you in-depth understanding of how computer technology works and a look at what goes on “behind the scenes” of the hardware and software that we take for granted. As part of the course, you will investigate computer programming and the interactivity of hardware and software. You will develop critical thinking, analysis and problem-solving skills and learn that algorithms are used in every part of Computer Science. An algorithm gives the computer a specific set of instructions, which allows the computer to do everything, be it running a calculator or running a rocket.

Computer Science is growing more and more in importance, it is the foundation on which the digital world is built, and you will develop understanding, knowledge, and the skills to progress to further education and employment. You will find that Computer Science provides a superb stepping-stone to the future.

Course details:

The course gives the opportunity to develop specific theoretical knowledge and skills that will be essential for employment and further education.

The key areas are:

· Component 1 includes Systems architecture, memory and storage, computer networks, network security, systems software and impacts of digital technology.

· Component 2 includes Algorithms, Programming fundamentals, Boolean logic, Programming languages and Integrated Development Environments (IDE).

Computer Science careers:

Studying Computer Science will give you the competitive advantage of working in the Computing industry. Computing skills are essential in a wide range of professions such as Financial analysis, not just IT related jobs. Computer Science will allow you to have the flexibility and skills to work in different sectors and locations. There are several career pathways open to you e.g. Employment, Degree Apprenticeships and Further Education.

Most in demand Computer Science jobs for 2022 are:

• Software developer

• Computer Network architect

• Computer Systems analyst

• Database Administrator

• Information Systems manager

• IT project manager

• Forensic Computer Analyst

• Application/Web developer

• Cyber Security

How Computer Science is assessed:

Component 1. Computer Systems.

Written paper (50%).

Component 2. Computational Thinking

Written paper (50%).

Practical Programming

Practical Programming tasks that will help solve problems. These skills will help with the content of

Components 1 and 2.

For further information, please email XXX