You will study three units during the course:

Unit 01: Computer systems.

This unit covers: systems architecture; memory; storage; wired and wireless networks;

network topologies, protocols and layers; system security; system software; ethical, legal,

cultural and environmental concerns.

Unit 02: Computational thinking, algorithms and programming.

This unit covers: algorithms; programming techniques; producing robust programs;

computational logic; translators and facilities of languages; data representation.

Unit 03: Programming Project.

This unit will involve: programming techniques; analysis; design; development; testing and

evaluation, and conclusions.

For further information, contact: Mr T Fitzjohn, Faculty Leader

Examination

The course is assessed through 80%

examination and 20% controlled

assessment. You will complete a paperbased examination on two units, each unit

being worth 40% of the overall

qualification: Computer systems, and

Computational thinking, algorithms and

programming. The practical investigation

and Programming Project unit is assessed

through controlled assessment.

What is the course style?

This GCSE course in Computer Science will

help you to gain an insight into related

sectors. It will prepare you to make

informed decisions about further learning

opportunities and career choices. This

course will enable you to become an

independent and discerning creator of

computing. You will acquire and apply

creative and technical skills, knowledge and

understanding of computing in a range of

contexts and will develop computing-based

solutions to solve problems. You will also

develop your understanding of current and

emerging technologies.

Who is this course suitable for?

GCSE Computer Science provides you

with opportunities to work with a variety of

technologies. The course is designed so

that you will be digitally literate, with an upto-date understanding of the digital world

around you. You will explore practical

applications of programming languages

and study a range of creative programming

applications in order to create a working

program to solve a given task. You will

develop an awareness of how to analyse

a problem as well as the steps needed to

design, develop, test and evaluate a

working solution to the problem.

Career opportunities

A GCSE in Computer Science opens up an

incredible world of opportunities for work

both in the technology industries and in

supporting roles within other industries.

The course is designed to:

• provide you with computational thinking

and digital literacy skills that you can

use to solve practical problems.

• enable you to keep up to date with

computing and digital developments.

• improve your confidence in areas such

as programming and program design.