Why do I need to study this subject?

This course gives students a real, in-depth understanding of how computer technology works. It offers

an insight into what goes on ‘behind the scenes’, including technical architecture of computer systems

and problem-solving skills, which can be transferred to further learning and to everyday life.

Computing is a specialist course and students must have the ability to think logically and have a good

knowledge of Mathematics. Students will require access to a PC or laptop at home.

What careers does it link to?

Software Developer Information Security Analyst Games design

Graphic Design Digital Security Online developer roles

Computer Network Architect Web Developer Computer Programmer

Computer Systems Analyst Computer Hardware Engineer Database Administrator

What will I be studying?

The course is split into 2 equally weighted components; Computer Systems and Computational Thinking

Component 1

Systems architecture, memory and storage, computer

networks, connections and protocols, network security,

systems software and ethical, legal, cultural and

environmental impacts of digital technology

Component 2

Algorithms, programming fundamentals, producing

robust programs, Boolean logic, programming language

and Integrated Development Environments (IDE)

How will I be examined?

Module 01 (Computer Systems – Theory) is an External Exam that lasts for 1 Hour 30 Minutes. It is a written

Paper out of 80 Marks. The exam includes a mix of multiple choice, short response and extended response question.

Module 02 (Computational Thinking, Algorithms and Programming – Theory) is an External Exam that lasts for 1

Hour 30 Minutes. It is a written paper out of 80 Marks.

Each module is worth 50% of the course