About the course

This exciting GCSE gives pupils an excellent opportunity to develop their

understanding of current and emerging technologies and how they work, acquire

and apply creative and technical skills, knowledge and understanding of IT in a

range of contexts, as well as develop computer programming and problem-solving

skills. The course includes some fascinating in-depth research and practical work.

Qualification Assessment

Unit Content Assessment method

Component 01

-

Computer

Systems

Systems architecture

Memory

Storage

Wired and wireless networks

Network topologies,

protocols and layers

System security

Systems software

Moral, legal, cultural and

environmental concerns

Written paper

50% of the

qualification

Question paper that includes

a mixture of short and long

answer questions.

Component 02

-

Computational

Thinking,

Algorithms and

Programming

Algorithms

Programming techniques

Producing robust programs

Computational logic

Translators and facilities of

languages

Data representation

Written paper

50% of the

qualification

Question paper that includes

a mixture of short and long

answer questions, some of

which will require candidates

to write program code.

Component 03

-

Programming

Project

Programming techniques

Analysis

Design

Development

Testing and evaluation and

conclusions

Controlled

assessment

Candidates create solutions

to computing tasks from a set

of options supplied by the

exam board.

Why take this course?

If you take a GCSE in Computing and then go on to study the subject at A Level or

university, you could have an advantage over fellow students who are picking up

the subject at these higher levels. The increasing importance of information

technologies means that there is a growing demand for professionals who are

qualified in this field.

As part of the course we liaise with local companies such as Bowers & Wilkins (Digital

Sound and engineering and Electric Square (Software and Games development).

The course is also an excellent preparation if you want to study or work in areas that

use the skills you will develop, especially where they’re applied to technical

problems. These areas include engineering, financial and resource management,

science and medicine.

This course really enhances your logical thinking and problem solving skills.

For further information please see: MR C BOSWELL or MRS R CARTER