

COMPUTER SCIENCE DEPARTMENT



For further information, please contact:

Mrs A Ali (Head of Department) or Mrs M Razaq (Computing/ICT Teacher)

COMPUTER SCIENCE DEPARTMENT

In key stage four we offer two courses to gain a GCSE or Cambridge National qualification.

Pupils can choose from the **OCR** or **AQA** course.

Pupils will need to choose this as one of their options.



AQA GCSE IN COMPUTER SCIENCE

The Computer Science course gives the students valuable thinking and programming skills that are extremely attractive in the modern workplace.

It gives them a deep understanding of the key concepts and principles of computer science.

It allows students to make reasoned judgements and to design, program, evaluate and refine solutions.

AQA GCSE IN COMPUTER SCIENCE

Assessment Criteria: Two externally assessed exam papers marked by the exam board

Paper 1: (50%)

This unit covers the body of knowledge about Computational Thinking, Algorithms and Programming on which the examination will be based. This is externally assessed: 2 hours written paper worth 90 marks.

Paper 2: (50%)

This unit covers the body of knowledge about Computer Systems theory and practical SQL programming skills on which the examination will be based. This is externally assessed: 1 hour 45 minutes written paper worth 90 marks.

AQA GCSE IN COMPUTER SCIENCE

Assessment Objectives:

AO1: Demonstrate knowledge and understanding of the key concepts and principles of computer science.

AO2: Apply knowledge and understanding of key concepts and principles of computer science.

AO3: Analyse problems in computational terms: to make reasoned judgements. To design, program, evaluate and refine solutions.

OCR CAMBRIDGE NATIONAL: INFORMATION TECHNOLOGY

Cambridge National in IT will inspire and equip you with the confidence to use skills that are relevant to the IT sector. It's a vocational qualification, equivalent in value to a GCSE and contains both practical and theoretical elements.

Qualification Content: There are 3 components to this course, 2 of which are controlled written assessments and 1 external exam.

OCR CAMBRIDGE NATIONAL: INFORMATION TECHNOLOGY

Key subject aims

As part of the Cambridge National, you'll cover the following:

- The key principles and concepts when creating IT products
- Creating complex spreadsheet solutions to meet requirements
- How augmented reality can be used to present information
- Creating an augmented reality model prototype to be tested and reviewed

OCR CAMBRIDGE NATIONAL: INFORMATION TECHNOLOGY

Assessment Criteria:

- R050: IT in the digital world Written paper. OCR-set and marked. (40%)
- R060: Data manipulation using spreadsheets. Centre-assessed task, OCR moderated. (30%)
- R070: Using augmented reality to present information. Centre-assessed task, OCR moderated. (30%)