

# COMPUTING

EXAM BOARD: OCR



## WHAT WILL I STUDY?

Students will study four units of work over two years.

### Year 12

Students will learn technical theory of computer systems such as software development, data structures, hardware design and composition, algorithm theory, and how legal/moral/cultural issues affect users of computers.

Students will then develop their skills with programming and algorithms, studying abstraction, decomposition, problem solving, and program design and efficiency.

### Year 13

Students will sit two paper based exams this year on the theory they have learned in Year 12 and the start of Year 13.

Students will also complete a large programming project through Year 13 in a programming language of their choice. Each student will independently analyse a complex programming problem to be solved and will then design, build, test and evaluate a solution to the problem.

## HOW WILL I BE ASSESSED?

This qualification has two paper-based exams in Year 13 giving 80% of the final marks. The remaining 20% of marks are obtained through the complex programming project.

## MINIMUM GCSE REQUIREMENTS

- Maths grade 6
- Computer Science grade 5

## POSSIBLE PROGRESSION PATHWAYS

Computer Science enables students to enter the more technical careers within the technology field.

Students could consider continuing Computing in higher education or applying for one of the numerous Computing or networking higher apprenticeships that are available every year.

This course would suit students who intend to enter roles as Network Engineers, Data Analysts, Database Administrators or Programmers in organisations or charities.