

# GCSE Computer Science

## Overview

Studying Computer Science encourages learners to understand the components that make up digital systems, how they communicate with one another and understand the impacts of digital technology to individuals, and to wider society.

Computers are widely used in all aspects of business, industry, government, education, leisure and the home. In this technological age, a study of computer science, and particularly how computers are used in the solution of a variety of problems, is essential to learners.

GCSE Computer science has two units of study and a third, course-work based unit. Unit 1 will be delivered in year 10 and the remaining units are completed during year 11.

Unit 1 consists of 10 key topics to explore the underpinning principles of computer science. Some of the topics include; Hardware, Security, Impacts of technology, Communications and Structure of data.

Unit 2 focus' on computational thinking and problem solving. A range of programming languages are used in a different contexts to allow the students to develop suitable algorithms.

