



A LEVEL

COMPUTER SCIENCE

Course Summary

COURSE OVERVIEW

This course explores how computers work, how they're programmed, and how data is processed. It includes programming, algorithms, data structures, computer systems, and computational thinking. The course combines theory with practical coding skills through an independent programming project.

WHY SHOULD I STUDY COMPUTING?

It develops logical thinking, creativity, and problem-solving. You'll learn to design and build software, understand real-world technologies, and prepare for a digital future. It's ideal if you enjoy math's, logic, and innovation in technology.

WHAT COURSES CAN THIS PREPARE ME FOR AT UNIVERSITY?

Computer Science, Software Engineering, Artificial Intelligence, Data Science, Cybersecurity, Robotics, or Games Development.

WHAT CAREERS CAN THIS SUBJECT SET ME UP FOR?

Software Developer, Data Analyst, Cybersecurity Specialist, Systems Architect, Network Engineer, AI Researcher, or IT Consultant.

COURSE SPECIFICATION

EXAM BOARD: OCR H446

Paper	Content	Duration	Weighting
1	Contemporary processors, software development, Exchanging data, Data types, data structures and algorithms, Legal, moral, cultural and ethical issues	2 hours 30 min	40%
2	Elements of computational thinking, Problem solving and programming, Algorithms to solve problems and standard algorithms	2 hours 30 min	40%
3	Programming project component (03) is a practical portfolio based assessment with a task.	n/a	20%