Course Title: A Level Computer Science

Entry requirements:	**Assessment:**
GCSE Grade 5 or above in Computer Science	2 external exams 1 internally assessment project.

Brief outline of the course	OCR A-Level Computer Science (H446) develops your understanding of how computers work and how to solve problems through programming. You will study computer hardware and software, data representation, networks and databases, alongside the legal and ethical issues surrounding technology. You will also develop computational thinking, algorithm design and practical programming skills. An independent programming project gives you the opportunity to analyse a problem and design, develop, test and evaluate your own software solution.
Highlights	Computer Science is a forward-thinking course designed to prepare students for the dynamic digital landscape. It offers a blend of theoretical knowledge and practical skills, aligning with current industry standards and higher education requirements. The programming project gives students the opportunity to explore practical programming skills in the context of their own choice.
Essential qualities/skills needed for the course	• Students should have an aptitude for programming and software development as well as being naturally curious on how technology functions and can be used in a range of industries. • The ability to work independently and managing workload to meet deadlines is essential to ensure success in your assignments.
How to gain a top grade on this course	Students who are able to reflect on their learning and recall information from all areas of the course to make links between different topics succeed the most in this course. Decomposition of complex problems into simpler solutions, allows students to access the top grade. Students who practice their programming skills and developing software in their own time succeed the most in this course, this can be done in any language.
Potential career links	• Software developer • Games designer • Network security specialist • Ethical hacking • Network forensics • UI developer • Network engineer