

COMPUTER SCIENCE STATEMENT OF AIMS

THE AIM OF THE KS4 CURRICULUM IS TO DEVELOP...

SUCCESSFUL LEARNERS

Key Stage 4 Computing equips students to use computational thinking and creativity to understand and change the world. Students will understand the principles of problem solving and computation, how computer systems work, and how to put this knowledge to use through programming and problem solving. Students will be equipped to use information technology to create programs, systems and a range of content. They will be responsible, competent, confident and creative users of ICT. Computing will build upon the soft skills required to make students successful, such as adaptability, problem solving and communication, through accessing our challenging curriculum.

CONFIDENT, INSPIRED INDIVIDUALS

Students will confidently demonstrate programming skills, establish an in depth knowledge of computing theory and show a high level of digital literacy. Students will also access the Unifrog CIAG Platform and develop a greater understanding of where skills developed in Computing can lead in making successful

ASPIRING, RESPONSIBLE CITIZENS

Students will be able to appreciate the importance of legal and ethical issues when using digital devices/ media. Their digital skills learnt will prepare them for the world of work.

CURRICULUM MAP KS4

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Y10	<i>J277 Computer Science 2.1 Algorithms</i>	<i>J277 Computer Science 2.2 Programming fundamentals</i>	<i>J277 Computer Science 2.4 Boolean Logic</i>	<i>J277 Computer Science 2.3 Producing robust programs</i>	<i>J277 Computer Science 2.5 Programming languages & Intergrated Development environments</i>	<i>J277 Computer Science 1.6 - Ethical, Legal, cultural & enviromental impact of digital technology</i>
ASSESSMENT	Cumulative assessment from Topic checks based on exam questions		PPE - J277/02 past paper			
Y11	<i>J277 Computer Science 1.1 - Architecture of the CPU</i>	<i>J277 Computer Science 1.2 Memory & Storage</i>	<i>J277 Computer Science 1.3 Computer networks, connections & protocols</i>	<i>J277 Computer Science 1.4 Network security</i>	<i>J277 Computer Science 1.5 system Software</i>	<i>External Exams J277/01 J277/02</i>
ASSESSMENT	PPE - J277/01 modified paper					