Stuart Bathurst Catholic High School



Computer Science, IT, Business and Digital Media Department

Long-term sequencing Year 13 A-Level Computer Science

CURRICULUM INTENT: To provide a knowledge-rich and balanced curriculum to support all learners through the course content; to provide multiple opportunities to use coding to create working and functional programs, and to solve given complex problems; to understand the impacts of digital technology to the individual and wider society, with particular attention paid to cultural, ethical and spiritual impact; to continue from GCSE level to a higher level of understanding of computer systems such as hardware, networks, databases and the Internet; to assist

learners in writing a long and complex piece of independent work; to provide the greatest possible level of assistance with revision for examinations.		
HALF TERM 1:	HALF TERM 2:	HALF TERM 3:
STUDENTS MUST KNOW:	STUDENTS MUST KNOW:	STUDENTS MUST KNOW:
 Ethical and Cultural issues 	 Thinking abstractly and logically 	 Programming basics
 Legislation related to Computer Science 	 Problem recognition and problem solving 	Recursion
Computational Thinking	 Revision for Unit 1 Mock per QLA 	Object Oriented Programming
Coursework: Coding and Testing	Coursework: Coding and Testing	Coursework: Evaluation
HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:
Mini assessment at end of first H/T	Full assessment (Paper 1) LRW1	Mini assessment at end of first half term
Weekly knowledge checkers and/or homework	Weekly knowledge checkers and/or homework	Weekly knowledge checkers and/or homework
HALF TERM 4:	HALF TERM 5:	HALF TERM 6:
STUDENTS MUST KNOW:	STUDENTS MUST KNOW:	STUDENTS MUST KNOW:
 Algorithms 	 Revision for Exams per QLAs 	N/A
 Searching and Sorting 		
Graph Traversal	HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:
Optimisation	Weekly knowledge checkers and/or homework	N/A
Coursework: Completion		
HOW THIS WILL BE ASSESSED:		
Full assessment for Paper LRW2		
Weekly knowledge checkers and/or homework		
Home learning will consist of a combination of: Worksho	eets (written and online), exam questions, QLA revision, GCSEPOD,	SENECA, Google Classroom