Sixth Form Subject Information

A level Computer Science

Qualification	A level Computer Science
Exam Board	OCR
Course Leader	Mr Jason Tarlton
Course summary	This course will provide learners with the opportunity through applied learning to develop core principles and specialist knowledge and understanding required in the Computer Science sector

What will students learn?	**Year 12**	Unit 1-7 Theory 80% Fundamentals of programming Fundamentals of data structures Fundamentals of algorithms Theory of computation Fundamentals of data representation Fundamentals of computer systems Fundamentals of computer organisation and architecture Consequences of uses of computing Fundamentals of communication and networking Fundamentals of databases Big Data Fundamentals of functional programming Systematic approach to problem solving
	Year 13	NEA 20%

How will the students be assessed?	**Year 12** All AS theory units taught. **Year 13** All A level theory units taught 20% NEA Paper 1 40% Paper 2 40%
Differentiation	The more able students will explore topics in greater depth and will be guided by teacher selected resources on topics the students wish to extend
Resources	https://www.ocr.org.uk/qualifications/as-and-a-level/computer-science-h046-h446-from-2015/