

Y13 Computer Science

Link to spec	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content Knowledge	NEA: Continues	Revision. C1 Software and software development	Revision. C1 Exchanging data Revision. C1. Data types, data structures and algorithms	Revision. C1. The characteristics of contemporary processors, input, output and storage devices	Revision and Mock practice	
	Revision C2. Problem solving and programming	Revision. C2. Elements of computational thinking	Revision. C2. Algorithms to solve problems and standard algorithms theory	Revision. C1. Legal, moral, cultural and ethical issues	Revision - Algorithms	
Skills	Demonstrate knowledge and understanding of the principles and concepts of computer science, including abstraction, logic, algorithms and data representation		Apply knowledge and understanding of the principles and concepts of computer science including to analyse problems in computational terms		Design, program and evaluate computer systems that solve problems, making reasoned judgements about these and presenting conclusions	
Key Questions	What are the differences between an abstraction and reality?	The need for, function and purpose of operating systems	What is Recursion? How it can be used and how it compares to an iterative approach.	Know the purpose of each piece of legislation and the specific actions it allows or prohibits ?	How long is the exam? What is the best way to prepare?	
Assessment	Low stakes/POP tests and End of Unit tests and past paper questions.				Exam style practice questions.	

Literacy/numeracy/SMSC/Character	Emphasis on the mathematical skills used to express computational laws and processes. This qualification is suitable for learners intending to pursue any career in which an understanding of technology is needed.
Enrichment opportunities and futures	Students typically go on to degree level study in fields such as computer science, cyber security, data science, mathematics and business.