COMPUTER SCIENCE—GCSE

Term	Year 10		Year 11	
	Units	Assessments	Units	Assessments
Autumn	Algorithms and Programming Techniques	Create an algorithm to help a taxi company calculate its fares	Programming languages Computer systems: hardware Computer systems: systems software	Write programs using low level language. Theory Test
	Iteration	Write and algorithm for a computer game. Theory Test	Python Refresher Programming Project	
Spring	Boolean logic Data types and structures	Design logic circuits to solve a control problem. Encode and decode messages with an encryption key. Theory Test	Programming Project Networks	Theory Test
	Searching and sorting algorithms Input and Output	Write an algorithm to find the top ten. Write a program to create and manage logins. Theory Test	System Security Ethical, legal, cultural and environmental concerns	Design and code an information point. Design and code an online test. Theory Test

Summer	Binary and hexadecimal	Write a program that will convert between different number formats.	Revision	GCSE summer exams
	Binary representations			
		Create a program to compress and decompress image files for a social media site.		
		Theory Test		
	Problem solving	Mock Programming Project		