



Subject: Computer Science	Components		Composite	Mission statement
	What new knowledge do we introduce?		What do students <i>do</i> with this knowledge?	By the end of year 11 a Sybil Andrews CS student will...
	Year 10	Year 11		
Autumn	Introduction to the programming language Visual Basic (sequencing, selection, iteration, variables, string manipulation, data types)	Visual programming (how to make visual applications; windows form application using prior programming knowledge)	Students use the skills learnt throughout the topics and apply them in answering GCSE questions in their end of topic assessments.	Have good programming knowledge including the understanding of the various concepts needed to create a solution to a given problem.
Spring	Data Representation (number systems, character sets, sound, images, binary arithmetic)	Algorithms & Problem Solving (pseudocode, flowcharts, sorts, searches, trace tables)		
Summer	Computer systems (logic gates, hardware, software, operating systems, translators, assembly language)	Data structures (arrays, multi-dimensional arrays, records)		
Rationale for these specific components and composite outcomes:	The above topics follow the AQA specification outline	The above topics follow the AQA specification outline		
How is challenge embedded into the KS4 curriculum?			How does the KS4 curriculum above build on prior knowledge from KS3 and adequately prepare the student for KS5?	



Advanced tasks (mild, hot, volcanic) are used on the majority of lesson worksheets.

The KS3 curriculum has been derived from the KS4 exam board specifications. KS3 students are introduced to the skills needed to complete the work at KS4