Curricum map - Year 13						
Exam board - OCR 2 papers 40% each. Project is worth 20%	https://ocr.org.uk/Images/170844- specification-accredited-a-level-ace- computer-science-h446.pdf Students have access to past sample coursework.		Useful website -	https://www.youtube.com/watch? v=SbaXaQ: 2ixs&list=PL04uZ7242_M4cbiwfz5 aM_28vu97txWF6 http://www.learncomputing.org/a 2revision.php		
Past papers -	https://ocr.org.uk/aualifications/as-a-level- gce/computer-science-h046-h446-from- 2015/assessment/					
Timeline	Topics/Objectives	Practical activities	Assessment	Feedback and analysis	Project Students will also be working on their individual projects. The final deadline is end of April.	
Autumn 1	Data Structure	Students will program associated algorithms for all data structure.	Homework - past exam questions. End of topic question.	Individual feedback on homework and assessment. This should give students the idea on topics for further revision. Teacher will also know which topics to revisit before	There are interim deadlines to complete each part of the project. They will be notified about this in lesson.	
	Students will learn about the following topics: Multi dimensional array List and linked list. Stack, queue, graph, tree, hash table. Students will also learn how to code these structure in a programming language.			final exams.		
	OOP	Students will use a high level programming language to apply skills of				
	Knowledge on Class, inheritance, polymorphism, encapsulation	001.				
	Database				Project continues. Students must finish designing their program	
Autumn 2	Normalisation upto 3NF Studnets will leam about database and relationship between tables.	Use of database software such as SQL. This will help some studnets with their projects.	Past exam questions and homework.		and start coding and testing.	
Spring 1	Specialist algorithms and recursion Students need to understand and apply the concept of the following:	Students will first learn the algorithm and they will program them for better understanding.	Homework and end of topic test.	Class and individual feedback to address common mistakes.		

the concept of the following: Measures and methods to determine the efficiency of different algorithms, Big O notation (constant, linear, polynomial, exponential and logarithmic complexity). Comparison of the complexity of algorithms. Algorithms for the main data structures, (stacks, queues, trees, linked list, depth-first (post-order) and breadth-first traversal. bubble sort, insertion sort, merge sort, quick sort, Dijkstra's shortest path algorithm, A* algorithm, binary search and linear search).

Spring 2 - focus is on revision and project.	Revision and walking talking mocks	Students will solve multple full papers as part of theit class and homework. This will give students the opportunity to get accustomed with the structure bfeor ethe mock.	Regular revision will prepare students for upcoming exams. Teacher's feedback will provide them with valuable techniques to compose model answers, Individual	Students will be working on the coding part of their project and possibly aiming for uder testing too.
		bledi ethemotik.	revision list.	

Mocks - both papers.

May-15	Deadline for uploading graded coursework
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	Last minute revision. Students will watch
	videos as homework and answer exam
	style questions in lesson. Peer/self
	assessment and analysis. This will tailor
	students' independent revision outside
	lessons.

A level exams Paper 1 - 1st June AM Paper 2 - 9th June AM Individual marking discussion to address the common issues.on papers and class