Curriculum map - Year 11 Exam board - OCR 2 exams, 50% each Past papers -	https://www.ocr.org.uk/qualifications/gcse/computer-science-j276-fr https://www.ocr.org.uk/qualifications/gcse/computer-science-j276-fr
Automa 1	
Assessment -	Homework and end of unit test. Feedback session
Autumn 2 -	Specialist searching and sorting algorithm. Revision for Mock
Spring 1 -	Analysis of mock result and updating students' plan of action.
Assessment - Walking talking mock -	Revision on programming techniques such as data types, arrays, variabl Homework focusing on past exam questions Whole exam papers for unit 1 and 2 Analysis of student performance
Spring 2 -	Revision on network focusing on LAN+WAN, Client-server vs P2P, topol
Assessment -	Past exam questions and mini assessment
Summer 1 -	Practice on writing algorithms using flow-chart and pseudocode
Paper 1 -	11th May 2020
Paper 2 -	14th May 2020

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les, strings, loop, selection, subroutines and file handling

ogies, protocols. Threats to network and prevention

	Curric	ulum map - Year 12		
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2 exams, 50% each	reserved and the second s	Craigndave videos		
Past papers -	https://www.ocr.org.uk/qualifications/as-and-a- level/computer-science-h046-h446-from-2015/assessment/	· Teach-ict		
		Learncomputing.org		
Programming project - 20%		 Sharepoint student site 		
Timeline	Objectives	Practical activities	Assessment	Feedback and analysis
Autumn 1				
RKH	Characteristics of networks and the importance of	Creating websites using HTML, CSS and JavaScript.	Homework set	In class feedback
	The internet structure:	students will look at code and identity errors.	studnets learning;	students struggled the
	The TCP/IP Stack.		Plenary using past	most
	Protocol layering.		unit test.	
	LANs and WANs. Packet and circuit switching.			
	Network security and threats, use of firewalls,			
	Network hardware.			
	Client-server and peer to peer. Students learn HTML, CSS and JavaScript.			
	Search engine indexing.			
	PageRank algorithm. Server and client side processing.			
MBY	CPU, Memory and Storage. Functions of CPU. LMC.		•	
	memory and storage. Student will learn about I/O devices.			
Autumn 2				
RKH		Carry out conversions and binary arithmetics	Homework set on a	End of unit test. One-to
	(a) Primitive data types, integer, real/floating point, character, string and Boolean. (b) Represent		weekly basis. Practice papers set	one feedback with WWW, FBI and target
	positive integers in binary. (c) Use of sign and			set. End of unit
	magnitude and two's complement to represent negative numbers in binary. (d) Addition and			assessment
	subtraction of binary integers. (e) Represent positive			
	between binary hexadecimal and denary. (g)			
	Representation and normalisation of floating point numbers in binary, (h) Floating point arithmetic,			
	positive and negative numbers, addition and			
	subtraction. (i) Bitwise manipulation and masks: shifts, combining with AND, OR, and XOR. (j) How			
MRY	character sets (ASCII and UNICODE) are used System Software, Student will learn about OS and its			
	functions. Utility software and diffetnt types. They will			
	learn about difeernt types of software such as propietary and off the shelf. Students will look into			
	different programming languages such as high and			
Spring 1				
RKH	(a) Define problems using Boolean logic. (b)	Draw out Karnaugh maps to simplify boolean	Past exam questions.	Homework feedback -
	of Karnaugh maps to simplify Boolean expressions.	expressions	much simplifying as	unit assessment
	(c) Use the following rules to derive or simplify statements in Boolean alaebra: De Morgan's Lowe		possible	
	distribution, association, commutation, double			
	negation. (a) Using logic gate diagrams and truth tables. (e) The logic associated with D type flip flops,			
MRY	half and full adders.			
	through class discussion on recent events about the			
	legal and environmental side of Computing.			
Spring 2	Physical and the state and the state of the		Foreign shale	In allow for a 21 - 1
KKH	students will be taught basic programming techniques. Including how to write basic algorithms	write pseudocode and programs including output, input, variables, selection, iteration and sub-	Exam style questions for starters/plenary	in class teedback addressing common
	in pseudocode and flow charts.	programs.	. ,	misconception. One-to
				checking targets,
MBY	Software Development. Students will learn about			WWW and EBI.
	different system life cycles such as agile, RAPID,			
	and binary seaching algoriths and their real-world			
	application. Students will proceed to program these			
Summer 1				
RKH	Revise all topics covered throughout the year for			
	mock			
			Practice exam	End of year assessment
MBY	Revise all topics covered throughout the year for		papers. Walking	- receive feedback
	тоск		taiking mock	IFORT MOCK
Summer 2				
RKH + MBY	Introduction to coursework. Start investigation and analysis for project. Students must write a synopsis of			In class feedback
	their project idea and write the analysis part after			
	stakeholders.			