OCR GCSE COMPUTER SCIENCE					
Comp 01: Computer Systems	This is assessed by a written paper, which has a mixture of short and long answer questions. 15% AO1, 22% AO2 and 3% AO3. No calculators allowed. Written paper, 1 hour 30 mins, 80 marks, 50% of qualification.				
Comp 02: Computational Thinking, Algorithms and Programming	This is assessed by a written paper, which has a mixture of short and long answer questions. 14% A01,14% A02 and 12% A03. No calculators allowed. Written paper, 1 hour 30 mins, 80 marks, 50% of qualification.				
Comp 03 NEA Programming Project (Year 11)	Students create solutions to programming tasks chosen from a set of options supplied by OCR. Tasks released Sept Year 11. 1% A01,4% A02 and 15% A03				

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Week	WC		Theory	Algor	ithms & Programming			
0		Topic Focus	Lesson Focus	Topic Focus	Lesson Focus	Notes		
1	07/09/2020	Intro & Expectations	Course Overview & What is a Computer System?	2.1 Algorithms	Computational thinking			
2	14/09/2020	Back to the Future	George Boole - Boolean Logic	2.1 Algorithms	Flowcharts			
3	21/09/2020	Back to the Future	Tim Berners-Lee - HTML and WWW	2.1 Algorithms	Flowcharts			
4	28/09/2020	Back to the Future		Assessemnt	Assessment on Year 8 Content			
5	05/10/2020	Back to the Future	Alan Turing - Code Breaking	Feedback	Think Pink Go Green			
6	12/10/2020	Back to the Future	Project	2.1 Algorithms	Pseudocode			
7	19/10/2020	Back to the Future	Project	2.1 Algorithms	Pseudocode			
	26/10/2020	Half Term						
1	09/11/2020	1 1 Systems Architecture	Components and Purpose	2 1 Algorithms	Interpret, correct or complete algorithms			
2	16/11/2020	1 1 Systems Architecture	Von Neumann Architecture	Python - Basic Functions	Simple conversation using Print			
3	23/11/2020	1 1 Systems Architecture	Fetch Execute Cycle	Python - Input & Output Statements	Guessing game			
4	30/11/2020	1 1 Systems Architecture	Common Characteristics & Performance	Python - Variables	Guessing game advanced			
5	07/12/2020	1 1 Systems Architecture	Embedded Systems	Python - Data Types	Casting and Validation			
6	14/12/2020	ASSESSMENT 1		Python Selection				
7	21/12/2020	Feedback		Python - Loops				
	28/12/2020	Christmas						
	04/01/2021	1.0.1						
1	11/01/2021	1.2 Memory	Purpose of ROM & RAM and difference between them	Python - functions	Python - functions			
2	18/01/2021	1.2 Memory	Flash Memory and need for Virtual Memory	Python -List and Dictionaries	Python - Project			
3	25/01/2021	1.2 Storage	Need for secondary storage & common types	Python - Reading and Writing to Files	Python - File Input & Output			
4	01/02/2021	1.2 Storage	Data capacity calculations & using characteristics	Python - Lists and Dictionaries	Python - Project			
5	08/02/2021	Assessment		Python - List and Functions	Python - Project			
6	15/02/2021	Feedback			Python - Project			
	22/02/2021	Half Term						
1	01/03/2021	1.2 Data Representation - Units / Numbers	Measurement of data, conversion of Denary/Binary/Hex	Animation:Blender	Introduction to Animation			
2	08/03/2021	1.2 Data Representation - Text	Character sets, limitations, types (ASCII) conversion.	Animation:Blender	Modelling			
3	15/03/2021	1.2 Data Representation - Images	Bitmap images, resolution (Quality), colour depth.	Animation:Blender	Animating and Parenting			
4	22/03/2021	1.2 Data Representation - Sound	Analogue to digital, sample rate, etc.	Animation:Blender	Advanced Modelling and Colouring			
5	29/03/2021	1.2 Data Representation - Compression	Lossy vs Lossless, types, file extensions.	Animation:Blender	Advanced Modelling and Colouring			
6	05/04/2021	Assessment		Animation:Blender	Proportional Editing			
	12/04/2021	Faster						
	19/04/2021							
1	26/04/2021	1.3 Networks - Types / Bandwidth	Simple networks and transmisison media.	1.5 Software - OS -User Interface	types of OS and how the GUI is constructed (WIMP)			
2	03/05/2021	1.3 Networks - Hardware	Components required for network, advantages.	1.5 Software - OS - Management	Roles the OS plays in computer performance.			
3	10/05/2021		Roles of computers, uses advantages.	1.5 Software - Utility - Common types	Utility programs and importance			
4	17/05/2021	Notworks	DNS, Hosting, the cloud.	1.5 Software - Utility - Backup	When and where back-ups are used.			
5	24/05/2021	Assessment						
	31/05/2021	121 Half Term						
1	07/06/2021	1.6 Ethical Issues	Copyright, Open source vs Proprietary					
2	14/06/2021	1.6 Legal Issues	DPA, Computer Misuse					
3	21/06/2021	1.6 Cultural Issues	?					
4	28/06/2021	1.6 Environmental Issues	e-waste, energy consumption.					
5	05/07/2021	1.6 Privacy Issues	DPA, RIP ACT					
6	12/07/2021	Assessment	End of Year Assessment					
7	19/07/2021	Feedback						
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