OCR GCSE COMPUTER SCIENCE J277 : YEAR 10				
	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	This is assessed by a written paper, with 2 sections: Section A Algorithm a mixture of short and long answer questions and Section B: Practical			
Programming	Programming 14% A01,14% A02 and 12% A03. No calculators allowed. Written paper, 1 hour 30 mins, 80 marks,50% of qualification.			
Practical Programming Skills	The programming task(s) must allow them to develop skills within the following areas when programming: Design, Write, Test, Refine			

Week	wc	Theory		Programming		
1		Topic Focus	Lesson Focus	Topic Focus	Lesson Focus	
2	07/09/2020	Intro & Expectations	Course Overview & Computational Thinking	2.2 Programming Techniques	Variables, Constants, Input & Output	
3	14/09/2020		Revision	2.2 Programming Techniques	Data Types & Operators	
4	21/09/2020	Exam Assessment 1	Assessment on Year 9 Content	2.2 Programming Techniques	Sequencing	
5	28/09/2020	Think Pink Go Green	Think Pink Go Green	2.2 Programming Techniques	Iteration (Fixed and Conditional)	
6	05/10/2020	2.1 Algorithms	Standard searching algorithms (Linear)	2.2 Programming Techniques	Iteration (Fixed and Conditional)	
7	12/10/2020	2.1 Algorithms	Standard searching algorithms (Binary)	2.2 Programming Techniques	Iteration (Fixed and Conditional)	
	19/10/2020 26/10/2020	Half Term				
1	02/11/2020	2.1 Algorithms	Standard sorting algorithms (Bubble)	2.1 Algorithms	Pseudocode- Basic String Manipulation	
2	09/11/2020	2.1 Algorithms	Standard sorting algorithms (Insertion)	2.1 Algorithms	Pseudocode -variables, constants, operators, inputs, outputs and assignments	
3	16/11/2020	2.1 Algorithms	Standard sorting algorithms (Merge & Comparisons)	2.1 Algorithms	Pseudocode -Selection	
4	23/11/2020	2.5 Translators and facilities of languages	Characteristics of different levels of programming language	2.1 Algorithms	PseudocodeLoops-For, While	
5	30/11/2020	2.5 Translators and facilities of languages	Translators and characteristics of types of translators	2.1 Algorithms	Pseudocode -Arrays	
6	07/12/2020	Exam Assessment 2	Cumulative Written Assessment	2.1 Algorithms	Pseudocode -Functions, Subprogram, Subprocedure	
7	14/12/2020	Think Pink Go Green	Think Pink Go Green	2.1 Algorithms	Pseudocode -File handling	
	21/12/2020					
	28/12/2020		Christmas Holiday			
1	04/01/2021	2.5 Translators and facilities of languages	IDE common tools and facilities	2.2 Programming Techniques	File Handling	
2	11/01/2021	2.5 Translators and facilities of languages	Syntax and Logic Errors	2.2 Programming Techniques	File Handling	
3	18/01/2021	2.5 Translators and facilities of languages	Purpose and types of testing & test data	2.2 Programming Techniques	File Handling	
4	25/01/2021	Assessment	Class Assignment 3	2.2 Programming Techniques	File Handling	
5	01/02/2021	Think Pink Go Green	Think Pink Go Green	2.2 Programming Techniques	SQL	
6	08/02/2021	1.2 Data Representation - Units / Numbers	Measurement of data, conversion of Denary/Binary/Hex	2.2 Programming Techniques	SQL	
	15/02/2021	Half Term				

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25	22/02/2021	1.2 Data Representation - Numbers	Binary addition, Overflow, Binary Shifts, Check Digits	2.3 Producing Robust Programs	Defensive design: input sanitisation/validation, planning for contingencies, anticipating misuse and	
26	01/03/2021	1.2 Data Representation - Text	Character sets, limitations, types (ASCII) conversion.	2.3 Producing Robust Programs	Maintainability. Comments, indentation, layout, variable names	
27	08/03/2021	1.2 Data Representation - Images	Bitmap images, resolution (Quality), colour depth.	2.3 Producing Robust Programs	Purpose of Testing, Test plan	
28	15/03/2021	Exam Assessment 3	Cumulative Written Assessment	2.3 Producing Robust Programs	2.3 Iterative testing: Normal, extreme and invalid test data	
29	22/03/2021	Think Pink Go Green	Think Pink Go Green	2.3 Producing Robust Programs	2.3 Syntax and logic errors	
30	29/03/2021	Data Representation - Sound	Analogue to digital, sample rate, etc.	Assessment	Cumulative Written Assessment	
31	05/04/2021					
32	12/04/2021	Easter				
33	19/04/2021	Data Representation - Compression	Lossy vs Lossless, types, file extensions.	Programming Development	Practise & Consolidation	
34	26/04/2021	1.8 Ethical, legal, cultural and environmental Issues	Legal Issues & relevant laws (open vs proprietary software)	Programming Development	Practise & Consolidation	
35	03/05/2021	1.8 Ethical, legal, cultural and environmental Issues	Environmental Issues	Programming Development	Practise & Consolidation	
36	10/05/2021	1.8 Ethical, legal, cultural and environmental Issues	Ethical & Cultural Issues	Programming Development	Practise & Consolidation	
37	17/05/2021	1.8 Ethical, legal, cultural and environmental Issues	Key stakeholder considerations	Class Assessment 5	Flashback Assessment	
38	24/05/2021	Half Term				
39	31/05/2021	Programming Development	Practise & Consolidation	Programming Development	Practise & Consolidation	
40	07/06/2021	Programming Development	Practise & Consolidation	Programming Development	Practise & Consolidation	
41	14/06/2021	Programming Development	Practise & Consolidation	Programming Development	Practise & Consolidation	
42	21/06/2021	EOY Assessment	End of Year Assessment both papers Comp1& Comp2	Programming Development	Practise & Consolidation	
43	28/06/2021	Revision	Revision for Comp 01	Revision	Revision for Comp 02	
44	05/07/2021	Comp 01 Mock	Comp 01 Mock		Comp 02 Mock	
45	12/07/2021					

	Assessment Objectives				
A01	Demonstrate knowledge and understanding of the key concepts and principles of Computer Science				
A02	Apply knowledge and understanding of key concepts and principles of Computer Science				
A03	Analyse problems in computational terms: - to make reasoned judgements - to design, program, evaluate and refine solutions				