Year 12 Curriculum Map

Term/Time	Miss C Bugeja (CBU) - Theory	Mr M Sheehan (MSH) – Programming
September	1.4.1 Data Types (worksheets)	Introduction to Pascal (Data types,
	1.4.3 Boolean Algebra (worksheets)	variables, operators, selection etc.)
October	1.2.4 Types of Programming Languages	Pascal continued. This links across the
	(from now on using purple	specification including:
	text book)	 data structures
	Test on Binary and Boolean	iteration
1 week	1.2.4 (c) Little Man Computer (plus	file handling
	practical resources)	 procedures and functions
	October half term	
1 lesson	(d) Addressing modes	2.1. Computational thinking
1 week	(e) Object-oriented languages (plus	 Thinking Abstractly
	practical resources)	 Thinking Ahead
	1.2.1 Systems Software	Thinking Logically
2 weeks	1.2.2 Software Applications	 Thinking Procedurally
		Thinking Concurrently
В	sebras Computational Thinking Competition a	
1 lesson	1.2.2 Applications generation	Programming using a GUI
1 1033011	1.2.3 Software development	
December		
	1.1. Hardware – processors, input,	Searching and sorting algorithms
2 weeks	output and storage devices	(Linear, binary, bubble)
2 Weeks	output and storage devices	
	Autumn Term test on all topics	Programming data structures such as
	covered	Stacks/Queues
	Christmas Break	
	1.4.2 Data Structures	2.2 problem solving and programming
2 weeks	2.3.1 Algorithms	
	1.3.1 Compression, encryption and	Searching and sorting algorithms (Linear,
1 week	hashing	binary, bubble etc.)
2 weeks	1.3.2 Databases	
2 WCCR3	1.3.3 Networks (Data transmission)	Project Set up and choosing an idea
1 week	21010 Networks (Buttu transmission)	
	February Half Term	
Java Script – weekly visits from Imperial University student include possible lunch and		
	lesson sessions	,
	1.3.4 Web Technologies (The internet)	Programming data structures such as
1 week	3 (Stacks
	1.5.1 Computing related legislation.	Merge and Quick sort
1 week		
1 week	1.5.2 Moral and ethical issues	Recursion
	Discussions Leading in to essay writing to	
	prepare for QoWC questions in exams	3.1 Coursework – Analysis Section
	Assessment essays	212 22 32 32 32 32 32 32 32 32 32 32 32 32
	Easter Break	
Summer Term		
Summer Term	2.1 Computational thinking	†
	2.2 33.17444433.141.14119	3.2 Coursework – Design Section
	Exam preparation	1
	Year 12 Exams	
	2.3.1 Algorithms	3.3 Coursework - Implementation
_	ortnightly assessments set based on work co	-

Year 13: Curriculum Map

Term/Time	Miss C Bugeja (CBU) - Theory	Mr M Sheehan (MSH) – Programming	
September	Assessment past paper		
	Using Heathcote, exam board		
	resources and exam type questions	3.3 Coursework – Implementation and	
	1.1 Processors, input, output, storage	Testing	
October	1.2 Software and software	resting	
	development		
November	1.3 Exchanging Data		
	Mock 1 exam – prep, sitting and	reviewing.	
Bebras Computational Thinking Competition around November			
December	1.4.1 Data Types	3.4 Coursework - Testing	
	1.4.2 Data structures and algorithms	3.4 Coursework - resting	
Christmas Break			
January	1.5 Legal, moral, cultural and ethical issues	3.4 Coursework - Evaluation	
February	Mock 2 exam – prep, sitting and reviewing.		
Feb/March	Java Script – weekly visits from Imperial University student		
March	Discussions Leading in to essay		
	writing to prepare for QoWC	Coursework Hand in	
	questions in exams		
Easter Break			
	Assessment essays	2.1 Computational thinking	
Summer Term	2.1 Computational thinking		
	2.2 problem solving and	2.2 problem solving and	
	programming	programming	
	2.3 algorithms		
		2.3 Algorithms	
	Exam preparation		
	Exams		