

W/B		Teacher A Programming (DDS)	TeacherA (DSS)	TeacherB (JMH)
		Unit1	Unit 2	Unit 1 & 2 Theory
07/09/2020	Sep	Programming Initial Screening	3.5.1 Number systems, 3.5.2 Number bases, 3.5.3 Units of information	3.6.4.1 Logic gates
14/09/2020		Introduction to programming,Data Types, Operators,Sequence	3.5.4.1 Unsigned binary arithmetic (inc. multiply)	3.6.5 Boolean algebra
21/09/2020		Selection	3.5.4.3 Signed binary using two's complement 3.5.4.4 Numbers with a fractional part	Circuits --> Algebra
28/09/2020		Iteration	3.5.5.2 ASCII and Unicode (theory) 3.5.5.3 Error checking and correction Barcode Reader HWDotW	Identities / simplifications using truth tables, Basics of problem solving, BEBRAS CHALLENGE
05/10/2020	Oct	Maths and String Functions	Topic consolidation	identities / simplification using algebra
12/10/2020		Interesting Maths Problems	Benchmark	Benchmark Go through
19/10/2020				Half Term
26/10/2020				
02/11/2020		Data Structures (Arrays)	3.5.6.4 Bitmapped graphics & Vector Graphics, Digital Camera HWDotW	3.7.1.1 Internal hardware components of a computer, 3.7.2.1 The meaning of the stored program concept
09/11/2020	Nov	Validation techniques	3.5.6.5 Digital representation of sound, DAC	3.7.3.1 The processor and its components 3.7.3.6 Factors affecting processor performance
16/11/2020		Functions and procedures	3.5.6.7 Data compression, Lossy, Lossless	3.7.3.2 The Fetch-Execute cycle and the role of registers, 3.7.3.3 The processor instruction set, 3.7.3.4 Addressing modes
23/11/2020		Structured programming and Passing Parameters	3.5.6.8 Encryption , RFID HWDotW	3.7.3.5 Machine-code/assembly language operations
30/11/2020		Structured programming and Passing Parameters	3.8 Consequences of uses of computing (Social, Ethical, Moral, Legal)	Tracing Assembly Programs, Practical Assembly programming
07/12/2020	Dec	Introduction to XO programing pre-release	3.8 Consequences of uses of computing	Consolidation and practice
14/12/2020		XO Code development tasks	Benchmark	Benchmark
21/12/2020				Christmas
28/12/2020				
04/01/2021	Jan		Laser Printer HWDotW	3.9.1.1 Communication methods
11/01/2021		XO Code test	3.6.1.1 Relationship between hardware and software	3.9.1.2 Communication basics
18/01/2021		Introduction to Cypher programming pre-release.	College Network Tour	3.9.2.1 Network topology: focus on the difference between logical and physical
25/01/2021		File Handling and structures	3.6.1.2 Classification of software, Optical Disk HWDotW	3.9.2.2 Types of networking between hosts
01/02/2021	Feb	Cypher code development tasks	Benchmark	3.9.2.3 Wireless networking
08/02/2021				Half Term
15/02/2021		Cypher code development tasks	Classification of software	3.3 Systematic approach to problem solving
22/02/2021		Cypher Code test.	3.6.1.3 System software ,3.6.1.4 Role of an operating system (OS), Hard Disk HV	3.4 Theory of computation overview
01/03/2021	Mar	Introduction to ARG programming Pre-Release (?)	Linking Hardware and Software, Solid-state disk HWDotW	3.4.2 Finite state machines (FSMs)
08/03/2021		development tasks	3.6.1.3 System software Not translators)	Programming with FSM
15/03/2021		Part C questions	Revision and consolidation	3.4 Theory of Computation review
22/03/2021		Timed programming problems techniques	Computational Thinking themes	Benchmark
29/03/2021		Mini test and instant feedback	Go through and 1-2-1s	
05/04/2021	Apr			Easter
12/04/2021				
19/04/2021		Programming Skills Practice	Focus on Exam Technique	
26/04/2021		"Part B" Technique and practice	Practicing holistic questions.	Introduction to the NEA.
03/05/2021	May	"Part C" Technique and practice	Revision and focused group learning	Brainstorming ideas, looking at past projects
10/05/2021		Exam strategy	Revision	Introduction to database programming
17/05/2021		ARG Programming Test	ARG Benchmark	Database concepts

24/05/2021			
31/05/2021		Half Term	Half Term
07/06/2021	Introduction to OOP	Event-Driven programing skills	Practical Database work (connections and DDL)
14/06/2021	OOP Skills (instantiation)	Form based Hangman	Practical Database work: linking with abstract data types and structures
21/06/2021	OOP Skills (Composition)	Form based Hangman	Practice DB project
28/06/2021	OOP Skills (inheritance)	Form based Hangman	Practice DB project, Introduction to "Research for analysis"
05/07/2021	OOP programming challenges		Create a Task list of skill development and research tasks
			Summer Hols