Computing Curriculum and Assessment Map

Term	Date	Week	Year 7	Year 8	Year 9 IT (Core)	Year 9 (Option)	Year 10	Year 11
Autumn A	05-Sep	1	Using Computers Safely -File Management	Using the Internet safely	Graphics and Photo Editing	Intro to Python - Strings and variables	Unit 1 - Algorithms - Flowcharts	Unit 7 - Bigger Picture - Ethical issues
	12-Sep	2	Social Networking	Computer Crime L1 Email scams	Key Features of Photo Editing Program/ the Photoshop	Data type and arithmetic	Pseudocode	Technology in society
	19-Sep	1	Keeping data safe	Computer crime L2 Computer misuse		Selection	Interpreting and correcting algorithms	Legislation and assessment
	26-Sep	2	Searching the web	Protecting personal data	Image Manipulation and Adjustments	Writing algorithms	Search algorithms	Unit 8 - Databases and SQL - Databases
	03-Oct	1	Using email	Copyright		While loops	Sorting algorithms	Relational databases
	10-Oct	2	Staying safe online	Health and safety	Advanced Features to alter look	Search algorithms	Choosing and evaluating algorithms	SQL
	17-Oct	1	Assessment	Assessment	Assessment	Assessment	Decompositon, abstraction and Assessment	Assessment
	24-Oct		October Half-Term	October Half-Term	October Half - Term	October Half-Term	October Half-Term	October Half-Term
Autumn B	31-Oct	2	Edublocks	Data Handling - Planning a DATABASE	Understand the keyfeatures of a Flash tool bar	Understanding Computers - Elements	Unit 2a - Programming - Data types	Mock Revision
	07-Nov	1	Iteration	Creating tables		The CPU	Operations	Mock Exams
	14-Nov	1	Variables	Adding Records to a database	Using twinning to create an Effect	Understanding binary	Sequence	
	21-Nov	1		Designing a Data capture Form		Binary addition	Selection	
	28-Nov	2	Selection	Creating Queries	Creating a Backdrop, replicating and Animating	Storage devices	Iteration	Review of Mock Exams
	05-Dec	1	Combined activities	Sorting and Searching the Database		Convergence	Arrays	
	12-Dec	2	Edublocks assessment	Revision	Feedback/ Evaluation /Assessment	Revision	Records and files	Revision
	19-Dec	2		Assessment		Assessment	Assessment	
	26-Dec		Christmas Break	Christmas Break	Christmas Break	Christmas Break	Christmas Break	Christmas Break
Spring A	02-Jan		omputer and Cryptography- What is a compute	Small Basics - Introduction	Key Features of multimedia platforms	Microbit - Setup and display	Unit 2b - Programming - Procedures	
	09-Jan	2	What is a Computer ?	Calculations	Layout a SWAY Page	Variables and lists	Validation and authentication	
	16-Jan	1	Colossus	Selection		Selection and input	Determining the purpose of algorithms	Coding Project (20 hours)
	23-Jan	2	What is Cryptography	Loops	Embedding Multimedia on a SWAY Page	Accelerometer	Errors and testing	
	30-Jan	2	Cryptography and WW2	Developing the model		Exploration	Classification of programming languages	
	06-Feb	2	Parts of a Computer	Evaluating the Model/Assessment	Create and Embedd a FEEDBACK FORM	Music	Assessment	
	13-Feb		February Half-term	February Half-term	February Half-term	February Half-term	February Half-term	February Half-term
Spring B	20-Feb	1	App Development- Identify the problem	Digital Literacy via Sway		AI and ML - What is AI?	Unit 3 - Data - Storage and binary	Revision
	27-Feb	1	App Development- Live Coding	Features of multimedia platforms-	Plan your SWAY Project	Machine learning	Numbers, characters and binary	
	06-Mar	2	Design the solution to real world problem	Layout a Sway page		Ethics of AI	Images and sound	Mock Exams
	13-Mar	2	Add user Input , Variables , order intsructions	How to add multimedia element	Create your SWAY Project	Image recognition	Compression, encryprion and databases	
	20-Mar	2	Evaluate and Respond to user Feedback	Design/Create your Sway Project		Turing tests and chatbots	Huffman coding	Review of Mock Exams
	27-Mar	2	Assessment	Evaluation/Assessment	Assessment of your SWAY PROJECT	Rate my review and Assessment	Unit 4 - Hardware - Components	
	03-Apr		Easter Break	Easter Break	Easter Break	Easter Break	Easter Break	Easter Break
	10-Apr							
Summer A	17-Apr	2	Spreadsheet modelling	Understanding Basic Python Codes	Planning and Introduction to setting up a database	Data science - Intro	Year 10 Exams	Revision
	24-Apr	2	Computer models	Use of Penup and Pendown	Creating tables	Global data		Practice Exam Papers
	01-May	1	Creating a financial model	Creating Basic Shapes		Investigative cycle	Elements of a computer and FDE	Review of Practice Papers
	08-May	2	What if scenarios	Using Loops to Create shorter images	Creating and Modifying Data Entering Forms	Data project	Storage devices of boolean logic	Revision
	15-May	1	Conditional formatting and validation	Revision		Cleaning and analysis	Operating systems and software	External Exams
	22-May	2	Assessment	Assessment	Populating your database	DS in Python and Assessment	Classification of programming languages	
	29-May		May Half-term	May Half-term	May Half - term	May Half-term	May Half-term	May Half-term
Summer B	05-Jun	0	Macros and charts1	Flowcharts	Creating Queries	Sequences of data in Python - Recap	Unit 5/6 - Wired and wireless networks	External Exams
	12-Jun	2	Macros and charts1	Sequencing	Creating Reports	Operatons on lists	Network topologies	
	19-Jun	2		Sensors		While loops	Protocols and layers	
	26-Jun	1		Subroutines	Designing a Switchboard	For loops	Network security	
	03-Jul	2	Spreadsheet modelling - assessment	Actuators			Cyber security checks	
	10-Jul	1	Revision	Variables	Evaluation/Assessment	Project	Detecting and preventing threats	
	17-Jul	2	Assessment	Assessment			Assessment	

1 period per fortnight   3 periods per fortnight