## Computing Curriculum Plan

KS3

	Year 7	Year 8	Year 9	
	Introduction to network	Working practices	Working practices	
	Login and introduction to	E-safety, get familiar with any	E-safety, get familiar with any	
	network	changes to school systems	changes to school systems	
	Email			
-	Go4schools	Spreadsheets	Spreadsheets	
Ę	Acceptable Use Policy	Cell referencing	Cover the content of the	
Autumn 1	Access to cloud and online	Formatting	European Computing Driving	
Æ	school resources	Sorting	Licence (ECDL)	
	Baseline test (Assessment 1)	Formulas	(Assessment 1)	
	E-safety – Create poster	Functions	,	
	Research skills	Charts		
	Trescar on similar	Sila is		
	Bebras computational thinking	Exam (Assessment 1)	Bebras computational thinking	
	challenge (Assessment 2)	Exam (Assessment 1)	challenge (Assessment 2)	
	chanelige (Assessment 2)	Bebras computational thinking	chanenge (Assessment 2)	
7	History of commuting	-	Duth an anamanaina	
E	History of computing	challenge (Assessment 2)	Python programming	
Autumn 2	Research, create, plan and	5.1	Review topics covered in year 8	
¥	evaluate a presentation on the	Databases	and cover iteration and apply	
	history of computing	Data types, characteristics of	techniques to solving problems	
	presentation (Assessment 3)	database tables, simple SQL queries		
	Hardware and Software	Python programming	Algorithms and data	
	Includes Inputs, processing and	Input, output, assignment and	representation (Assessment 3)	
	Outputs Create a brochure	variables, operators and selection	Binary-denary conversion	
	using desk top publishing		Character coding	
-	(Assessment 4)		Bitmap graphics	
Spring 1			Vector graphics	
ğ			Sound	
			Fetch execute cycle	
			Boolean logic gates	
			Searching algorithms	
			Sorting algorithms	
	-			
	Sequencing	Animation	Mobile phone app	
7	Use Flowol to create	Create 2D animations and use	development	
	flowcharts for control various	techniques such as layering, shape	Create a mobile phone app that	
Spring	systems from traffic lights to	and motion tweening	has revision resources	
•	more complex control systems			
			nyan	
	Logo Programming	Websites	BYOB	
-	Draw shapes by programming	Creating websites using HTML and	Design and create a game in	
Jer	a turtle to introduce some of	CSS (Assessment 3)	BYOB	
Summer 1	the basic concepts of coding			
Sul	including sequencing and		Product launch using	
	iteration. (Assessment 5)		multimedia –images - poster	
			Film advert	
	Block based coding in Scratch	Advertising campaign using		
r 2	Continue to develop coding	multimedia		
me	and introducing additional	Pupils can use a variety of		
Summer 2	concepts like assignment,	multimedia to advertise a product –		
Š	selection and concurrency.	making a radio advert		

KS						
	Year 10 GCSE	Year 10 iMedia	Year 10 Core	Year 11 GCSE	Year 11 iMedia	Year 11 Core
Autumn 1	Data Representation Binary, Hexadecimal, ASCII  Coding Input, output, variables, selection	Preproduction skills topics (Exam) Moodboards, Spider and Visualisation diagrams, Storyboards, Scripts Interpret client requirements, Identify timescales, Carry out primary and secondary research	Digital literacy Completion of idea bronze award https://idea.org.uk  Computational thinking Metacognition  IT Office and collaboration apps across all subjects  E-safety E-safety and cybersecurity through assemblies	Cybersecurity  Coding	Creating Interactive Multimedia Products Where different interactive multimedia products are used Required hardware File formats Limitations Key elements	Digital literacy Completion of idea bronze award https://idea.org.uk  Computational thinking Metacognition  IT Office and collaboration apps across all subjects  E-safety E-safety and cybersecurity through assemblies
Autumn 2	Data Representation Images Sound Compression  Coding Iteration	Preproduction skills topics Produce a work plan Identify Target audience, Hardware, techniques and software, Health and safety legislation		Networking Wireless Wired LAN, WAN, PAN  Coding	Creating Interactive Multimedia Products	
Spring 1	Coding Functions Lists Radom	Preproduction skills topics Understand different file formats, Review pre-production documents, mIdentify areas for improvement in a - preproduction document		IT in society Legal issues Coding	Design Game Concept  The Evolution of gaming platforms Compare capabilities and limitations of platforms	
Spring 2	Coding Reading and writing files	Creating Digital Graphics Why digital graphics are used, How digital graphics are used, Types of digital		Contingency/ Revision	Design Game Concept	
Summer 1	Computer Systems Hardware Software Boolean Coding	graphics, File formats Properties of digital graphics				
ner 2	Computer Systems Fetch-execute-					

Cycle

Coding