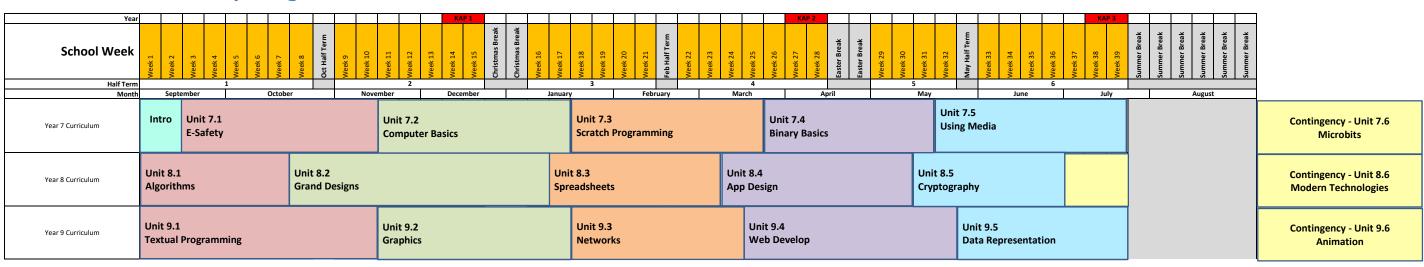
KS3 Curriculum - Computing



	Year 7					Scheme of Work				
	Unit Name	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Lesson 8	Lesson 9
INT	Intro to The Link School Network		SMH / Emails							
7.1	E-Safety	Communication Methods G - O -	Staying safe on Social Networks G - O -	Cyber Bullying G - O -	Malware and Security G - O -	Test	Fix it / Green for Growth			
7.2	Computer Basics	Hardware & Software G - O -	Input & Output G - O -	Inside a Computer G - O -	Memory & Storage G - O -	Types of Computer G - O -	Test	Fix it / Green for Growth		
7.3		Creating Sprites / Costumes G - O -	Background / Moving Sprites G - O -	Variables G - O -	Game Development G - O -	Levels / Broadcast G - O -	Game Development G - O -	Game Development G - O -	Fix it / Green for Growth	
7.4	Binary Basics	Logic Gates G - O -	Binary Numbers G - O -	Hexadecimal Numbers G - O -	Binary Addition / Characters G - O -	Test	Fix it / Green for Growth			
7.5	Using Media	Features of a Word Processor G - O -	Licensing appropriate images G - O -	Credibility of sources G - O -	Research and plan a blog G - O -	Promoting you cause G - O -	Project completion and assessment G - O -	Fix it / Green for Growth G - O -		
Contin gency7 .6	Microbits	Introduction to Microbits G - O -	Beginner Tutorials G - O -	Advanced Tutorials G - O -	Maker Tutorials G - O -					

	Year 8					Scheme of Work				
	Unit Name	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Lesson 8	Lesson 9
8.1	Algorithms	Programming Concepts G - O -	Flowcharts G - O -	Searching Algorithms G - O -	Sorting Algorithms G - O -	Test	Fix it / Green for Growth	Lessuit /	Lesson o	Lesson 9
8.2	Grand Designs	Introduction to Sketch up G - O -	Creating the House G - O -	Creating the House G - O -	Creating the House G - O -	Leaflet Design G - O -	Leaflet Design G - O -	Leaflet Design G - O -	Fix it / Green for Growth	
8.3	Spreadsheets	Getting to know a spreadsheet G - O -	Quick Calculations G - O -	Collecting Data G - O -	Become a Data Master G - O -	Level up your skills G - O -	Assessment			
8.4	App Design	App for that G - O -	Tappy Tap App G - O -	School Lab Studios G - O -	User Input G - O -	App Development G - O -	Project Assessment	Fix it / Green for Growth		
8.5	Cryptography	Introduction to Encryption G - O -	Alan Turing & Enigma G - O -	Caesar Cipher G - O -	Vigenere Cipher G - O -	Test	Fix it / Green for Growth			
Contingency8	Modern Technologies	GPS G - O -	Artificial Intelligence G - O -	Data Science 1 G - O -	Data Science 2 G - O -	Hacking G - O -				

	Year 9					Schame	e of Work				
	Unit Name	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Lesson 8	Lesson 9	Lesson 10
9.1	Small Basic	Introduction to Small Basic G - Identify the main features of the Development Environment and write a simple program O - Adapt a simple program by adding new lines of code.		G - Describe how an If/Else statement works and use in a program	G - Describe how iteration works and use a simple loop in a program	Graphics Window G - Create simple shapes using the graphics window O - Use suitable statements to assign properties to individual shapes	graphics window and	Turtle Graphics G - Create simple shapes using the turtle object O - Create efficient complex shapes using the turtle by applying iteration and maths	Branching + Subroutines G - Describe how Branching and Subroutines work O - Use Branching and Subroutines within code	Arrays G - Use Arrays to store multiple values within a variable O - Use an Indexed array with more than one set of indices	Assessment
		Introduction to Fireworks		•	Advanced Tools	Assessment Task	Assessment Task	Assessment			
9.2	Graphics	G - O -	G - O -	G - O -	G - O -	G - O -	G - O -	G - O -			
		Introduction to HTML	Write Basic HTML		Links	Images	CSS	Creating a Web Form	Assessment		
0.3	Web Davelenment	G - O -	G -		G - O -	G -	G -	G -			
9.3	Web Development		0 -	0 -	0-	0 -	0 -				
9.4	Networks		different types of network hardware	wireless connection and give examples of specific technologies	travels between computers	The World Wide Web G - Describe some components of the World Wide Web O Explain how webpages are fetched and viewed	Test	Fix it / Green for Growth			
9.5	Data Representation	Images - Binary Mosaic G - O -	Images - A Splash of Colour G - O -	G -		Sound - Sonic Playground G - O -	Test	Fix it / Green for Growth			

	KS3 National Curriculum	7.1 E-safety	7.2 Computer Basics	7.3 Scratch Programming	7.4 Binary Basics	7.5 Using Media	Contingency 7.6 Microbits	8.1 Algorithms	8.2 Grand Designs	8.3 Spreadsheets	8.4 App Design	8.5 Cryptography	Contingency 8.6 Modern Technologies	9.1 Small Basic	9.2 Graphics	9.3 Web Development	9.4 Networks	9.5 Data Representation	Contingency 9.6 Animation	KEY Partial Full
cience	model the state and behaviour of real-world problems and physical systems																			12
	understand several key algorithms that reflect computational thinking																			9
	use 2 or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures																			11
S	understand simple Boolean logic and some of its uses in circuits and programming; understand how numbers can be represented in binary																			5
Computer	understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems																			8
O	understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits																			7
	undertake creative projects that involve selecting, using, and combining multiple applications																			12
╘	create, reuse, revise and repurpose digital artefacts for a given audience, with attention to trustworthiness, design and usability																			10
DL	understand a range of ways to use technology safely, respectfully, responsibly and securely																			8
		KS3 7.5, 9.3 KS4 CS Legislation	KS3 7.6, 8.6, 9.4 KS4 CS System Architecture Memory / Storage Software	KS4 CS Python	KS4 CS Data Representatio n	8.2, 8.6, 9.3 KS4 CS Legislation KS4 IM Sources KS4 BU Report writing	KS3 7.3, 8.4, 9.1 KS4 CS System Architecture Python Programming	KS3 8.5 KS4 CS Algorithms	KS3 7.5, 8.6, 9.3 KS4 CS KS4 IM Planning	KS3 8.5, 9.1, 9.2 KS4 CS Python Programming KS4 IM Planning KS4 BU Finance	KS4 CS Python Programming KS4 IM Multimedia	KS3 8.1, 9.4 KS4 CS System Security	KS4	7.3, 7.6, 8.3, 9.3 KS4 CS Python Programming	KS4 BU Graphics	KS3 8.4, 9.4 KS4 CS Networks Python Programming	Networks		KS3 7.5, 9.2 KS4 IM Animation	