

KS3 IT & Computing

		Year 7		Year 8		Year 9				
		Extension from KS2		Continued Skills...		Preparation for KS4				
TERM	WK									
6 weeks 4 days	TERM 1	1	General IT Procedures		ESAFETY - A5 Info Booklet		E-SAFETY-Interactive Prototype			
		2	BASELINE TEST		Social Media, Sharing Information Online		Cyber Threats, Social Engineering			
		3	ESAFETY - A4 Poster		Digital Footprint, Privacy Settings		DOS Attcak, Hacking - Hats BWG			
		4	Cyberbullying & Advice, Trolling		Identity Theft, Phishing		Malware, Mitigation			
		5	Social Media/Gaming - staying safe online							
		6	Creating Strong Passwords							
Oct Half Term										
9 weeks	TERM 2	1	COMPUTATIONAL THINKING & DATA REP Algorithmic Thinking, Decomposition Abstraction, Algorithms What is Binary? Binary & Denary conversions		PROGRAMMING PYHON Input, Output/PRINT Basic Arithmetic Operators Variables, Concatenation		PROGRAMMING PYHON Casting, IF Statements ELSE/ELIF Boolean Operators FOR & WHILE Loop Flowcharts			
		2								
		3								
		4								
		5								
		6								
		7								
		8								
		9								
Christmas Break										
6 weeks	TERM 3	1	BLOCK BASE PROGRAMMING		SPREADSHEETS		SPREADSHEETS			
		2	<u>Microbits & Robobit</u>		MIN, MAX, AVERAGE functions		Design Tools - Mind Map, Wireframes			
		3	Algorithmic Thinking		Conditional Formatting		IF Statement, Data Validation			
		4	Input/Output, Variable		CountIF, Charts		VLOOKUP			
		5	Psuedocode, Instructions		Moderate formatting		Absolute Cell Referencing			
		6					Security			
Feb Half Term										
4 weeks	TERM 4	1	PROGRAMMING TEXTBASE		COMPUTATIONAL THINKING & DATA REP		SYSTEMS ARCHITECTURE 3			
		2	<u>Small Basic</u>		<i>Basic Flowcharts</i>		Components of PC - RAM/ROM, Motherboard			
		3	Input/Output, Variable		Binary Addition, HEX conversions		HHD, CPU, ALU, FDE			
		4	Iteration							
Easter Break										
6 weeks 4 days	TERM 5	1	SPREADSHEETS		PROGRAMMING & ROBOTS		AUGMENTED REALITY *			
		2	Basic +/-*		Design Tools - Mind MapFlowahrts		<i>Subject to change</i>			
		3	SUM function		Programming, Control Systems, sensors		INTERNET OF THINGS			
		4	Basic formatting							
		5	Graphical Representation							
		6								
Half Term										
6 weeks	TERM 6	1	SYSTEMS ARCHITECTURE 1 Input/Outp/Storage devices		SYSTEMS ARCHITECTURE 2		SORTS & SEARCHES, Binary			
		2			Operating System		SORT - Merge, Insertion, Bubble			
		3			Application Software		Searches - Linear & Binary			
		4			Systems Software		Binary Conversions			
		5								
		6								
Summer Break										