

KS3 Curriculum - Computing

Year																																																							
School Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Oct Half Term	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	KAP 1	Christmas Break	Christmas Break	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Feb Half Term	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	KAP 2	Easter Break	Easter Break	Week 29	Week 30	Week 31	Week 32	May Half Term	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	KAP 3	Summer Break	Summer Break	Summer Break	Summer Break	Summer Break	Summer Break
Half Term	1								2								3								4								5								6														
Month	September				October				November				December				January				February				March				April				May				June				July				August										
Year 7 Curriculum	Intro	Unit 7.1 E-Safety						Unit 7.2 Computer Basics						Unit 7.3 Scratch Programming						Unit 7.4 Binary Basics						Unit 7.5 Using Media										Contingency - Unit 7.6 Microbits																			
Year 8 Curriculum	Unit 8.1 Algorithms				Unit 8.2 Grand Designs								Unit 8.3 Spreadsheets						Unit 8.4 App Design						Unit 8.5 Cryptography								Contingency - Unit 8.6 Modern Technologies																						
Year 9 Curriculum	Unit 9.1 Textual Programming						Unit 9.2 Graphics						Unit 9.3 Networks						Unit 9.4 Web Develop						Unit 9.5 Data Representation										Contingency - Unit 9.6 Animation																				

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	
Computer Science	design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems			Full				Partial	Full	Full	Partial	Partial		Partial		Partial	Partial			
	understand several key algorithms that reflect computational thinking			Partial	Partial		Partial	Full				Full	Partial				Partial	Partial		
	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			Full			Full			Partial	Full			Full		Full				
	understand simple Boolean logic and some of its uses in circuits and programming; understand how numbers can be represented in binary		Partial			Full								Partial				Partial	Full	
	understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems	Partial	Full				Partial				Partial					Partial	Full			
	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		Partial	Partial	Full									Partial	Full				Full	
IT	undertake creative projects that involve selecting, using, and combining multiple applications	Full		Partial		Full	Partial		Partial		Partial		Partial	Partial	Partial	Partial			Full	
	create, reuse, revise and repurpose digital artefacts for a given audience, with attention to trustworthiness, design and usability	Partial				Full			Partial	Partial	Partial		Partial		Full	Partial			Partial	
DL	understand a range of ways to use technology safely, respectfully, responsibly and securely	Full				Full						Full				Partial	Partial			
Progression / Links to...		KS3 7.5, 9.3 KS4 CS Legislation	KS3 7.6, 8.6, 9.4 KS4 CS System Architecture Memory / Storage Software	KS3 7.3, 8.4, 9.1 KS4 CS Python Programming	KS3 8.1, 9.2 KS4 CS Data Representation	KS3 8.2, 8.6, 9.3 KS4 CS Legislation Sources KS4 IM 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	KS3 7.3, 7.6, 9.1 KS4 CS Python Programming KS4 IM Multimedia	KS3 8.1, 9.4 KS4 CS System Security	KS3 7.5, 8.5, 9.3 KS4 KS4 CS Python Programming	KS3 7.5, 9.2 KS4 IM Graphics KS4 BU Graphics	KS3 8.4, 9.4 KS4 CS Networks Python Programming	KS3 7.1, 7.2, 9.3 KS4 CS Networks	KS3 7.4, 8.3 KS4 CS Data Representation	KS3 7.5, 9.2 KS4 IM Animation		
		6	4	7	5	6	5	3	4	4	6	5	4	5	5	7	6	5	3	

KEY
 Partial
 Full

12
9
11
5
8
7
12
10
8