	Year 7	Year 8	Year 9

HT1	Introduction to Brook Mead and Computing:
	• Introduction to Brook Mead
	• Reading Comprehension tests
	• Understanding the school network
	• Required portals for homework
	• Email usage at Brook Mead
		Laws of Computing:
		• Computer Misuse Act
		  o Hackers
		  o Viruses
		• Data Protection Act
		• Copyright Designs and Patents Act
		• Health and Safety at Work Act
			Cyber Security:
			• Why systems are attacked.
			• Internal and External threats to a system
			• Data level Protection
			• Device Hardening
			• Ethical and Moral issues

HT2	Algorithms: • Computational Thinking • Algorithms • Flowcharts and their uses	Python Programming: • Data Types • Arithmetic Operations • Selection • Iteration • Project-Based Assessment • Functions and Procedures Algorithms: 5 LESSONS • Pseudocode • Computational Thinking	Computer Systems: • Von Newman Architecture • Embedded Systems • Secondary Storage • Compression • Assembly Language and Registers • Christmas Exam Python Programming: • Data Types • Arithmetic Operations • Selection • Iteration • Readability and Efficiency of code • Project-Based Assessment
HT3	E-Safety: • Introduction to E-Safety and CEOP • Social Media and Digital Footprints • Cyberbullying and its impacts • Internet Dangers and Grooming • Sexting, Trolling and Staying Safe Online • Safer Internet Day	Computer Systems: • Operating Systems • Hardware, software, and peripherals • Storing and executing programs • Utility software	Continue Python Programming Algorithms: • Computational Thinking • Algorithms • Pseudocode • Searching and Sorting Algorithms

	Mid-Point Exam before Half-Term		
HT4	Block-Based Programming: • Programming Etiquette and basics • Sequence, selection, and iteration	Data Representation: • Binary Addition • Hexadecimal • Image representation Mid-Point Exam before Easter	Networks and Protocols: • Different Network types • Connecting to networks • Network Hardware • Importance of Protocols

HT5	Computer Systems and Networks:
	• What is a computer?
	• Input, Output and Processes
	• CPU and the FDE Cycle
	• Storage
	• LAN and WAN
		Finish Data Representation
		
		Cloud Computing:
		• Introduction to Cloud Computing
		• Cloud Storage
		• Cloud Software
		• Use in Society
		• Risks of Cloud Computing aka Computer Misuse Act
			Data Representation:
			• Logic Gates
			  ○ Logic Circuits
			  ○ Boolean Logic
			  ○ Truth Tables
			• Binary Shifts
			• Sound Representation

HT6	Data Representation: • What is Binary? • Binary to Denary • Denary to Binary • ASCII and Unicode End of Year assessment	Impact of Technology • Technology for Good • AI • Issues • Careers End of Year Assessment	Computing Project Scholars are asked to create a presentation or a piece of code in Micro: Bit or Python about anything that they have learnt in the last 3 years. End of Year Assessment