

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	<ul style="list-style-type: none"> ○ Computer Systems ○ E- Safety ○ Password ○ File Management ○ Cloud Computing 	<ul style="list-style-type: none"> ○ Hardware ○ Input/Output devices ○ Secondary Storage ○ Role of CPU/RAM ○ Embedded Systems 	<ul style="list-style-type: none"> ○ Computational Thinking ○ Abstraction ○ Decomposition ○ Pattern Recognition ○ Algorithms 	<ul style="list-style-type: none"> ○ Computational Thinking ○ Application of Algorithms ○ Debugging ○ Solving Algorithmic problems 	<ul style="list-style-type: none"> ○ Data Representation ○ Why we need Binary ○ Image Representation ○ File Types ○ Image Quality/Purpose 	<ul style="list-style-type: none"> ○ Digital Literacy Project ○ Digital Literacy project to produce a presentation on Hardware requirements
Year 8	<ul style="list-style-type: none"> ○ Hardware ○ CPU Cycle ○ Factors Affecting Performance ○ Virtual Memory ○ Secondary Storage 	<ul style="list-style-type: none"> ○ Networking ○ LAN/WAN/PAN ○ Network Hardware ○ Connection factors ○ Network Security (Firewall/Anto-malware) 	<ul style="list-style-type: none"> ○ Computational Thinking ○ Developing Algorithms ○ Sequence, Selection, Iteration, Mathematical Operators ○ Testing, Debugging ○ Data Types 	<ul style="list-style-type: none"> ○ Computational Thinking ○ Application of computational thinking and algorithms ○ Introduction to scripting e.g. Python 	<ul style="list-style-type: none"> ○ Data Representation ○ Units of data ○ Binary Conversion ○ Binary Addition ○ Character Sets 	<ul style="list-style-type: none"> ○ Digital Literacy Project ○ Digital Literacy project to produce a presentation on previous terms learning
Year 9	<ul style="list-style-type: none"> ○ Computational Thinking ○ Algorithms, Decomposition, Abstraction ○ Use of Blockly Programming (Scratch) to apply Computational Thinking 		<ul style="list-style-type: none"> ○ Programming ○ Application of computational thinking into creating scripted code (Python) ○ Sequence, Selection, Iteration, Arrays, String Manipulation 		<ul style="list-style-type: none"> ○ Programming Project ○ System development life cycle ○ Analyses and Design project (Flow-Charts) ○ Routes for programming implementation ○ Decision based Powerpoint - Blockly Programming- Scripted Programming (python) 	
Year 10	<ul style="list-style-type: none"> ○ Boolean Logic ○ Units ○ Data Storage ○ Designing, creating and refining algorithms 	<ul style="list-style-type: none"> ○ Designing, creating and refining algorithms ○ Programming Fundamentals ○ Data Types 	<ul style="list-style-type: none"> ○ Programming techniques ○ Practical Programming Skills 	<ul style="list-style-type: none"> ○ Binary – Characters – Images – Sound – Compression ○ Architecture of CPU ○ CPU performance 	<ul style="list-style-type: none"> ○ Embedded Systems ○ RAM/ROM/Cache ○ Secondary Storage ○ Networks and Topologies 	<ul style="list-style-type: none"> ○ Wire and Wireless networks, protocols and layers ○ Practical Programming revision
Year 11	<ul style="list-style-type: none"> ○ Threats to systems and networks ○ Operating systems ○ Utility software ○ Ethical, legal, cultural and environmental impact 	<ul style="list-style-type: none"> ○ Defensive Design ○ Testing ○ Languages ○ IDE – Integrated Development Environment 	<ul style="list-style-type: none"> ○ Practical Programming Revision ○ Searching and sorting Algorithms and Programming 	<ul style="list-style-type: none"> ○ Theory revision ○ Practical Programming Revision 	<ul style="list-style-type: none"> ○ Theory revision ○ Practical Programming Revision 	