2023/ 2024	AUTUMN			SPRING			SUMMER	
	HT1		HT2	HT3	HT4		HT5	HT6
Y 7	Area of study: Baseline Test + Induction Key concepts: Baseline, H&S, Office 365, Email, Teams Assessment method: Baseline Test	Area of study: Getting Started File Management, Office 365, Internet and Well-being, Vector Graphics, Bitmap Images, Photographs Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Computing components Key concepts: Hardware, measuring computer performance, computer peripherals, storage devices and media, the Internet of Things Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Internet Safety, cyber security & Encryption Key concepts: Digital Footprint, passwords and phishing, malware, encryption, automating encryption, keeping safe online Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Introducing Spreadsheets Key concepts: Formulae, replication, referencing, Functions, Boolean Operators, IF and COUNT, Formatting, Graphs and charts, Modelling, Theme Park Challenges Assessment method: End of Unit Assessment (Assessment of work)		Area of study: Programming in Scratch Key concepts: Introduction, sequencing, variables, selection, selection and logical operators and iteration Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Programming in Python (Sequencing) Key concepts: Computer programs, getting data from the user, Data Types, Placeholders and lists, working with lists, working with strings Assessment method: End of Unit Assessment (Assessment of work)
Y 8	Area of study: Computing: past present and future Key concepts: Word processing, designing a leaflet, Moore's law, the history of computing, learning to present, the future of computing Assessment method: End of Unit Assessment (Assessment of work)		Area of study: Binary and computer logic Key concepts: Logic gates, binary, creating an app, testing and reviewing an app, representing text and images Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Networking and the Internet Key concepts: IP addressing and switching, Domain names and DNS, Packets /packet switching, The Internet, Connecting to the internet Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Algorithms Key concepts: Computational Thinking, Pattern Recognition, Flow Diagrams, Decomposition, Abstraction Assessment method: End of Unit Assessment (Assessment of work)		Area of study: Programming in Python (Sequencing) Key concepts: Computer programs, getting data from the user, Data Types, Placeholders and lists, working with lists, working with strings Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Programming in Python (Selection) Key concepts: Selection, Decisions and calculations, IF…ELSE, comparing strings and numbers, ELIF, Multiple ELIFs Assessment method: End of Unit Assessment (Assessment of work)
Y 9	Area of study: Designing Websites Key concepts: HTML, Tags, Images, Text, CSS, Headers, Hyperlinks, Navigation, Tables Assessment method: End of Unit Assessment (Assessment of work)		Area of study: Programming in Python (Selection) Key concepts: Selection, Decisions and calculations, IF…ELSE, comparing strings and numbers, ELIF, Multiple ELIFs Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Programming in Python (Iteration) Key concepts: Instructions, For loops, strings, lists, searching using for loops, while loops Assessment method: End of Unit Assessment (Assessment of work)	Area of study: Ethics of Computing Key concepts: Sourcing content, using technology responsibly, technology and the environment, technology and the law Assessment method: End of Unit Assessment (Assessment of work)		Area of study: Project 2 Programming in Python Key concepts: Planning, Design, Development, Testing, Evaluation Assessment method: Assessment of Project 2	Area of study: Project 1 Theme Park Advert Key concepts: Graphics, audio/video editing, advert, marketing Assessment method: Assessment of Project 1
Y 10	Area of study: System Architecture | Algorithms | Boolean Logic Key concepts: Architecture of the CPU, CPU Performance, Embedded Systems, Computational Thinking, Designing, creating and refining algorithms Assessment method: End of Unit Assessment (Theory)		Area of study: Memory and Storage | Programming Fundamentals Key concepts: Primary Storage and secondary storage, development of programming skills Assessment method: End of Unit Assessment (Theory + Python)	Area of study: Memory and Storage | Additional Programming techniques Key concepts: Units, Data Storage, development of programming skills Assessment method: End of Unit Assessment (Theory + Python)	Area of study: Memory and Storage | Additional Programming techniques Key concepts: Data storage, compression, development of programming skills and practice Assessment method: End of Unit Assessment (Theory)		Area of study: Producing Robust Programs | Additional Programming techniques | Raspberry Pi projects Key concepts: Defensive design, testing, development of programming skills and practice tasks Assessment method: End of Unit Assessment (Theory) Assessment of challenge solutions	Area of study: Programming Challenges | Revision Key concepts: Development of programming skills/practice (read, write, test & refine tasks based on a given problem) Assessment method: End of Unit Assessment (Theory) Assessment of challenge solutions
Y 11	Area of study: Recap of Year 10 | Networks and Topologies | Wired and Wireless networks, protocols and layers | Threats and preventing vulnerabilities Key concepts: Networks, Topologies, Hardware, Client/Server networks, P2P Networks, Internet, Encryption, IP and MAC addressing, TCP/IP Layers Standards and Protocols, Threats, Vulnerabilities Assessment method: End of Unit Assessment		Area of study: Operating Systems | Utility Software | Ethical, Legal, Environmental + Cultural Impacts | Mock Revision Key concepts: Operating Systems, Utility Software, Impacts Assessment method: Mock Exams	Area of study: Ethical, Legal, Environmental + Cultural Impacts | Searching and Sorting Algorithms | Languages + IDE's | Revision Key concepts: Impacts, Searching, Bubble sort, merge sort, insertion sort, identifying algorithms Assessment method: End of Unit Assessment	Area of study: Revision Key concepts: Component 1 and 2 Assessment method: Paper 1 Mock Exam Paper 2 Mock Exam		Area of study: Revision Key concepts: Component 1 + 2 Assessment method: Final GCSE Exams	

NOTES	SKILLS FOR LIFE/ FUTURE LEARNING AND EMPLOYMENT
	Problem Solving Skills Logical Thinking Skills Digital Literacy Team-working Communication