2023/2024	AUTUMN			SPRING			SUMMER	
	HT1		HT2	HT3		HT4	HT5	HT6

Y7

HT1		HT2	HT3	HT4	HT5	HT6
Area of study: Baseline Test + Induction	Area of study: Getting Started	Area of study: Computing components	Area of study: Internet Safety, cyber security & Encryption	Area of study: Introducing Spreadsheets	Area of study: Programming in Scratch	Area of study: Programming in Python (Sequencing)
Key concepts: Baseline, H&S, Office 365, Email, Teams	File Management, Office 365, Internet and Well-being, Vector Graphics, Bitmap Images, Photographs	Key concepts: Hardware, measuring computer performance, computer peripherals, storage devices and media, the Internet of Things	Key concepts: Digital Footprint, passwords and phishing, malware, encryption, automating encryption, keeping safe online	Key concepts: Formulae, replication, referencing, Functions, Boolean Operators, IF and COUNT, Formatting, Graphs and charts, Modelling, Theme Park Challenges	Key concepts: Introduction, sequencing, variables, selection, selection and logical operators and iteration	Key concepts: Computer programs, getting data from the user, Data Types, Placeholders and lists, working with lists, working with strings
Assessment method: Baseline Test	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)

Y8

HT1	HT2	HT3	HT4	HT5	HT6
Area of study: Computing: past present and future	Area of study: Binary and computer logic	Area of study: Networking and the Internet	Area of study: Algorithms	Area of study: Programming in Python (Sequencing)	Area of study: Programming in Python (Selection)
Key concepts: Word processing, designing a leaflet, Moore's law, the history of computing, learning to present, the future of computing	Key concepts: Logic gates, binary, creating an app, testing and reviewing an app, representing text and images	Key concepts: IP addressing and switching, Domain names and DNS, Packets /packet switching, The Internet, Connecting to the internet	Key concepts: Computational Thinking, Pattern Recognition, Flow Diagrams, Decomposition, Abstraction	Key concepts: Computer programs, getting data from the user, Data Types, Placeholders and lists, working with lists, working with strings	Key concepts: Selection, Decisions and calculations, IF…ELSE, comparing strings and numbers, ELIF, Multiple ELIFs
Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)

Y9

HT1	HT2	HT3	HT4	HT5	HT6
Area of study: Designing Websites	Area of study: Programming in Python (Selection)	Area of study: Programming in Python (Iteration)	Area of study: Ethics of Computing	Area of study: Project 2 Programming in Python	Area of study: Project 1 Theme Park Advert
Key concepts: HTML, Tags, Images, Text, CSS, Headers, Hyperlinks, Navigation, Tables	Key concepts: Selection, Decisions and calculations, IF…ELSE, comparing strings and numbers, ELIF, Multiple ELIFs	Key concepts: Instructions, For loops, strings, lists, searching using for loops, while loops	Key concepts: Sourcing content, using technology responsibly, technology and the environment, technology and the law	Key concepts: Planning, Design, Development, Testing, Evaluation	Key concepts: Graphics, audio/video editing, advert, marketing
Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: End of Unit Assessment (Assessment of work)	Assessment method: Assessment of Project 2	Assessment method: Assessment of Project 1

Y10

HT1	HT2	HT3	HT4	HT5	HT6
Area of study: System Architecture | Algorithms | Boolean Logic	Area of study: Memory and Storage | Programming Fundamentals	Area of study: Memory and Storage | Additional Programming techniques	Area of study: Memory and Storage | Additional Programming techniques	Area of study: Producing Robust Programs | Additional Programming techniques | Raspberry Pi projects	Area of study: Programming Challenges | Revision
Key concepts: Architecture of the CPU, CPU Performance, Embedded Systems, Computational Thinking, Designing, creating and refining algorithms	Key concepts: Primary Storage and secondary storage, development of programming skills	Key concepts: Units, Data Storage, development of programming skills	Key concepts: Data storage, compression, development of programming skills and practice	Key concepts: Defensive design, testing, development of programming skills and practice tasks	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 method: End of Unit Assessment (Theory + Python)	Assessment method: End of Unit Assessment (Theory + Python)	Assessment method: End of Unit Assessment (Theory)	Assessment method: End of Unit Assessment (Theory) Assessment of challenge solutions	Assessment method: End of Unit Assessment (Theory) Assessment of challenge solutions

Y11

HT1	HT2	HT3	HT4	HT5	HT6
Area of study: Recap of Year 10 | Networks and Topologies | Wired and Wireless networks, protocols and layers | Threats and preventing vulnerabilities	Area of study: Operating Systems | Utility Software | Ethical, Legal, Environmental + Cultural Impacts | Mock Revision	Area of study: Ethical, Legal, Environmental + Cultural Impacts | Searching and Sorting Algorithms | Languages + IDE's | Revision	Area of study: Revision	Area of study: Revision	
Key concepts: Networks, Topologies, Hardware, Client/Server networks, P2P Networks, Internet, Encryption, IP and MAC addressing, TCP/IP Layers Standards and Protocols, Threats, Vulnerabilities	Key concepts: Operating Systems, Utility Software, Impacts	Key concepts: Impacts, Searching, Bubble sort, merge sort, insertion sort, identifying algorithms	Key concepts: Component 1 and 2	Key concepts: Component 1 + 2	
Assessment method: End of Unit Assessment	Assessment method: Mock Exams	Assessment method: End of Unit Assessment	Assessment method: Paper 1 Mock Exam Paper 2 Mock Exam	Assessment method: Final GCSE Exams	

NOTES

SKILLS FOR LIFE/ FUTURE LEARNING AND EMPLOYMENT

- Problem Solving Skills
- Logical Thinking Skills
- Digital Literacy
- Team-working
- Communication