

Year	Half-term 1	Half-term 2	Half-term 3	Half-term 4	Half-term 5	Half-term 6
7	Knowledge that will be taught: Computer Basics - Schools Basics - Using a Mouse and Keyboard - Using Office 365 - Effective Communication - Use of the Internet	Knowledge that will be taught: Spreadsheet Modelling - Introduction to Microsoft Excel - Using Basic Formula - Data Collection - Functions and Charts - Functions and Filtering - Assessment	Knowledge that will be taught: Problem Solving - Computational Thinking - Decomposition - Pattern Recognition - Abstraction - Algorithmic Thinking - Representing Algorithms	Knowledge that will be taught: Small Basic Programming - Introduction to Small Basic - Use of Loop - Using the Text Window - Using Conditions and Selection - Assessment	Knowledge that will be taught: How Computers Work and Communicate - Introduction to Computer Systems - Internal and External Hardware - Input and Output Devices - What is a Network? - How Do Network Work? - Data Transmissions and the Internet	
8	Knowledge that will be taught: Introduction to Cybersecurity - Types of Malware and Prevention - Secure Systems: Authentication and User Access Rights - Social Engineering - Computer Misuse Act - Digital Footprint	Knowledge that will be taught: Introduction to Python Programming - Transferable Skills between Small Basic and Python - Inputs, Outputs and Variables - Data Types and Operations - If Statements - Iteration - Project	Knowledge that will be taught: Data Representation - Binary Numbers - Character Sets - Images - Data Sizes	Knowledge that will be taught: Internet of Things - What is the Internet of Things? - Input and Output of Smart Devices - Understanding IoT Applications and Data - The Impact and Challenges of IoT - Designing a Smart Device Concept - The Future of IoT	Knowledge that will be taught: Interactive Products - Target and Purpose - Designing an Interactive Product - Interactive Product Creation	
9	Knowledge that will be taught: Advanced Python - Recap of Basic Skills - Using Lists - Creating Functions - Working with Strings - Randomisation - Developing a Complete Program	Knowledge that will be taught: Artificial Intelligence - Introduction to AI - How AI Learns from Data - Generative AI - Using AI Effectively - AI is Society - Ethics and Responsible AI	Knowledge that will be taught: Advanced Spreadsheets - Recap of Basic Skills - Advanced Functions - Data Validation - Dashboard Design - Dashboard Development - Spreadsheet Testing and Evaluation	Knowledge that will be taught: Impacts of Technology - Technology in Everyday Life - Technology and Employment - Privacy, Security and Personal Data - Environmental Impact of Technology - The Digital Divide - Ethical Issues	Knowledge that will be taught: Festival Project - Understanding the Festival Brief - Festival Budget Modelling - Branding and Advertising - Interactive Product Design and Development - Evaluation and Presentation	
10	Knowledge that will be taught: Component 1A – Understand Interface Design for Individuals and Organisations - A1 – User Interfaces - A2 – Audience Needs - A3 – Design Principles - A4 – Designing an Efficient User Interface	Knowledge that will be taught: Component 1B – Be Able to Use Project Planning Techniques to Plan, Design and Develop a User Interface - B1 – Project Planning Techniques - B2 – Creating a Project Proposal and Plan - B3 – Creating an Initial Design - B4 – Developing a User Interface	Knowledge that will be taught: Component 1C – Be Able to Review a User Interface C1 - Review Component 1 PSA	Continuation of Component 1 PSA Knowledge that will be taught: Component 2A – Understand How Data is Collected and Used by Organisations and Its Impact on Individuals - A1 – Characteristics of Data and Information - A2 – Representing Information - A3 – Ensuring Data is Suitable for Processing - A4 – Data Collection - A5 – Quality of Information - A6 – Sectors that Use Data Modelling - A7 – Threats to Individuals	Knowledge that will be taught: Component 2B – Be Able to Create a Dashboard Using Data Manipulation Tools - B1 – Data Processing Methods - B2 – Producing a Dashboard Component 2C – Be Ables to Draw Conclusions and Review Data Presentation Methods - C1 - Drawing Conclusions Based on Findings in the Data - C2 – How Presentation Affects Understanding	Component 2 PSA
11	Continuation of Component 2 PSA Knowledge that will be taught: Component 3A – Modern Technologies - A1 – Modern Technologies - A2 – Impact of Modern Technologies	Knowledge that will be taught: Component 3B – Cybersecurity - B1 – Threats to Data - B2 – Prevention and Management of Threats to Data - B3 - Policy	Knowledge that will be taught: Component 3C – The Wider Implications of Digital Systems - C1 – Responsible Use - C2 – Legal and Ethical	Knowledge that will be taught: Component 3D – Planning and Communication in Digital Systems D1 – Forms of Notation		