Computing Overview

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|  | **Digital Literacy, Online Safety and ICT** | | | | **Computational Thinking** | |
| **Year** | **Strand 0**  **Key Skills** | **Strand 1**  **Communicating:**  **Text and Images** | **Strand 2**  **Communicating:**  **Multimedia** | **Strand 3**  **Understanding & Sharing Data** | **Strand 4**  **Programming A** | **Strand 5**  **Programming B** |
| **Y1** | What is a Computer?; Mouse & Keyboard Skills; Logging on; Opening & saving work; Organising files; Searching for information | * 1. How do I use the school computer independently? | 2.1 How do I record sounds and pictures? | 3.1 How do I present data using pictures? | Algorithms; Programs; Sequence | |
| 4.1 What is an algorithm? | 5.1 What is a program? |
| **Y2** | 1.2 How do I use a  computer as a writer? | 2.2 How do I create a multimedia story | 3.2 What is a branching database? | Algorithms; Programs; Debugging | |
| 4.2 How do I improve my algorithms? | 5.2 How do I improve my programs? |
| **Y3** | 1.3 What makes a good poster? | 2.3 How do I use a computer as a musician? | 3.3 How do we use databases to find out information? | Sequence; Repetition; Input | |
| 4.3 How do I use repetition in programs? | 5.3 How do I use forever loops in programs |
| **Y4** | 1.4 How do I use a computer as an artist? | 2.4 What makes an excellent multimedia story? | 3.4 How is data shared online? | Decomposition, Selection | |
| 4.4 How do I write efficient programs? | 5.4 How do I use selection in a program? |
| **Y5** | 1.5 How do we collaborate online? | 2.5 How do I create a radio advert or podcast? | 3.5 How do I find and share data safely and responsibly? | Inputs and Outputs; Variables | |
| 4.5 How do I program physical systems? | 5.5 How do I use variables in programs? |
| **Y6** | 1.6 How do I use a computer to present information effectively | 2.6 What makes an excellent film? | 3.6 Why do we use spreadsheets? | Variables; Operators | |
| 4.6 How do I build complex physical systems? | 5.6 How do I design complex programs? |