

Aims

At Meersbrook Bank we aim to ensure that all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology.

Computing Scheme of Work (Sheffield)								
Year	Autumn I	Autumn II	Spring I	Spring II	Summer I	Summer II		
FS2	<u>We Control</u> 1a - What is a Compu 1b - We Control Tech 1c - Tinkering: Bee-Bo	nology	<u>Commur</u> <u>Multir</u> 2a - Digital Art 2b - Sound & Music 2c - Photographs 2d - Films & Animatio 2e – eBooks	nedia	<u>Communic</u> 3a - Counting 3b – Sorting	<u>ation: Data</u>		



	Strand 0 Key Skills	Strand 1 Communicating: Text and Images	Strand 4 Programming A	Strand 2 Communicating: Multimedia	Strand 5 Programming B	Strand 3 Understanding and sharing data
¥1	 What is a computer? Mouse and Keyboard skills Logging on Opening & saving work Organising files Searching for information 	How do I use the school computer independently?	What is an algorithm?	How do I record sounds and pictures?	What is a program?	How do I present data using pictures?
Y2	 What is a computer? Mouse and Keyboard skills Logging on Opening & saving work Organising files Searching for information 	How do I use a computer as a writer?	How do I improve my algorithms?	How do I create a multimedia story?	How do I improve my programs?	What is a branching database?



	Strand 0 Key Skills	Strand 1 Communicating: Text and Images	Strand 4 Programming A	Strand 2 Communicating: Multimedia	Strand 5 Programming B	Strand 3 Understanding and sharing data
Y3	 What is a computer? Mouse and Keyboard skills Logging on Opening & saving work Organising files Searching for information 	How do I use a computer as an artist?	How do I use repetition in programs?	How do I use a computer as a musician?	How do I use forever loops in programs?	How do we use databases to find out information?
¥4	 What is a computer? Mouse and Keyboard skills Logging on Opening & saving work Organising files Searching for information 	How do I use a computer as an artist?	How do I write efficient programs?	What makes and excellent multimedia story?	How do I use selection in a program?	How is data shared online?



	Strand 0 Key Skills	Strand 1 Communicating: Text and Images	Strand 4 Programming A	Strand 2 Communicating: Multimedia	Strand 5 Programming B	Strand 3 Understanding and sharing data
¥5	 What is a computer? Mouse and Keyboard skills Logging on Opening & saving work Organising files Searching for information 	How do we collaborate online?	How do I program physical systems?	How do I create a radio advert?	How do I use variables in programs?	How do I find and share data safely and responsibly?
Y6	 What is a computer? Mouse and Keyboard skills Logging on Opening & saving work Organising files Searching for information 	How do I use a computer as a designer?	How do I build complex physical systems?	What makes an excellent film?	How do I design complex programs?	Why do we use spreadsheets?