



## Computing Vocabulary Overview

### Key Concepts

Each of these concepts will be cyclically revisited each year and taught across the year groups within the 3 areas of computing learning (Computer Science, Digital Literacy and E-safety and Information Technology). Each time they are taught, they will be understood at a more in-depth level or reviewed appropriately relating to the computing focus.

Over- arching concept	Year Group	Explanation
<b>Computer Science</b>	Nursery - Y6	Giving a person, computer or device an instruction to achieve a given task e.g. using arrows on a Beebot to control its movements. Within Programming we learn how to use our algorithms to produce a specific outcome, focusing on identifying errors, debugging code and using repeats and consequences to ensure the program is successful and efficient.
<b>E-Safety &amp; Digital Literacy</b>	Nursery -Y6	Keeping safe on the internet or when using technology. It is the role of the teacher to ensure the children are equipped with the skills to safely make use of technology and understand the processes in place to safeguard children should a problem arise. Through Digital Literacy, we ensure we can safely use devices to the best of our ability.
<b>Information Technology</b>	Nursery - Y6	This applies to interactive computer elements such as graphics, texts, videos, sound and animation to deliver a message or communicate with an audience e.g. creating an informative video linked to a topic. We will learn how to create, process, store and access files and software on digital devices.

### Computing Glossary

Please find below a bank of Computing terms with their associated definitions, use this to ensure you have accurate understanding of the terms that are commonly used, in all year groups, when teaching the subject of Computing.

Key Term	Definition
Computer	A device that takes an input, processes it and then produces an output.
Device	An object that includes technology to make it work.
Keyboard	An input device that enables the user to input characters (letters, numbers, symbols)
Mouse	An input device to move the cursor on the screen. You can click and scroll using a mouse.
Text	The words and characters on a page.
Log on	To identify yourself to a system using a username and/or password to gain access.
Open	You 'open' a file in order to be able to gain access to it to edit or view.
Save	You 'save a file in order to be able to gain access to it at a later date.
Print	Computer transferring data to a computer printer, creating a hard copy of electronic data.
Resize	Changing the dimensions of an object in a graphical environment e.g. in a document.
Website	A set of web pages that belong together. Each is linked to others in some way e.g. BBC – BBC Sport, Cbeebies, CBBC
World Wide Web	Part of the internet made up of websites.

## Year group specific vocabulary

Below are the year group specific vocabulary grids. Within these you will find the key concepts taught throughout computing and the associated vocabulary that are linked to each of the three strands. In addition to the vocabulary, there is an overview of the software, hardware and resources that might be needed to teach each strand. Any that are unfamiliar to you, please familiarise yourself with them or speak to the Computing Subject Lead who can provide vital CPD.

### EYFS

<b>Computer Science</b>	<b>Digital Literacy &amp; E-safety</b>	<b>Information Technology</b>
<b>Key concepts</b>		
Instructions Sequence	Safe/unsafe Tablet Kind/Unkind	Digital device
<b>Vocabulary</b>		
First Next Finally (These will be taught as word aware vocabulary)	Username Password Cyber-bullying – taught as kind and unkind	Internet Search Information
<b>Software/ Hardware/ Resources</b>		
BeeBots Floor mats for cars/ small world Word Aware vocab for positional language	Keyboard E-safety books Computers Laptops iPads	Computer Keyboard Mouse iPad screen

Year 1

<b>Computer Science</b>	<b>Digital Literacy &amp; E-safety</b>	<b>Information Technology</b>
<b>Key concepts</b>		
Programming	Log on/ off Safe/ Unsafe	Data
<b>Vocabulary</b>		
Reteach EYFS for new starters Algorithm Sequence Debug	Username Password Rules Cyber-bullying	Graph Presentation Link Pictograph
<b>Software/ Hardware/ Resources</b>		
BeeBots Laptops iPads Floor mats for small world exploration Word Aware vocab for positional language	Keyboard E-safety books Computers Laptops iPads	Purple Mash Computer Laptop Keyboard Mouse iPad Screen Microsoft Software e.g. PowerPoint

Year 2

Words in **red** are additional to the previous year.

Computer Science	Digital Literacy & E-safety	Information Technology
<b>Key concepts</b>		
Programming	Log on/ off Safe/Unsafe	Data <b>Save</b>
<b>Vocabulary</b>		
Algorithm Sequence Debug <b>Predict</b> <b>Execute</b>	Username Password Rules Cyber-bullying <b>"Space bar"</b> <b>"Enter key"</b> <b>Edit</b>	Graph Presentation Link Pictograph <b>Bar Chart</b> <b>Device</b>
<b>Software/ Hardware/ Resources</b>		
Beebots Purple Mash 2Code Instructional Vocabulary Laptops iPads	Keyboard E-safety books Computers Laptops iPads	Purple Mash Computer Laptop Keyboard Mouse iPad Screen Microsoft Software e.g. PowerPoint

Year 3

Words in **red** are additional to the previous year.

Computer Science	Digital Literacy & E-safety	Information Technology
<b>Key concepts</b>		
Programming Sequence	Log on/ off Safe/Unsafe <b>Real/Fake</b>	Data Save <b>Online/ Offline</b>
<b>Vocabulary</b>		
Algorithm Debug Predict Execute <b>Repeat</b> <b>Input</b> <b>Output</b>	Username Password Rules Cyber-bullying "Space bar" "Enter key" Edit <b>Age Rating/ Restrictions</b>	Graph Presentation Link Pictograph Bar Chart Device
<b>Software/ Hardware/ Resources</b>		
Beebots Purple Mash 2Code Instructional Vocabulary Laptops iPads Scratch Jnr Lego WeDo Microbits	Keyboard E-safety books Computers Laptops iPads	Purple Mash Computer Laptop Keyboard Mouse iPad Screen Microsoft Software e.g. PowerPoint Microbits that could be used as data loggers

Year 4

Words in **red** are additional to the previous year.

Computer Science	Digital Literacy & E-safety	Information Technology
<b>Key concepts</b>		
Programming Sequence	Log on/ off Safe/Unsafe Real/Fake	Data Save Online/ Offline
<b>Vocabulary</b>		
Algorithm Debug Predict Execute Repeat Input Output <b>Modify</b>	Username Password Rules Cyber-bullying "Space bar" "Enter key" Edit Age Rating/ Restrictions <b>Appropriate</b>	Graph Presentation Link Pictograph Bar Chart Device <b>Analyse</b> <b>Copy</b> <b>Paste</b>
<b>Software/ Hardware/ Resources</b>		
Beebots Purple Mash 2Code Instructional Vocabulary Laptops iPads Scratch Jnr Lego WeDo Microbits	Keyboard E-safety books Computers Laptops iPads	Purple Mash Computer Laptop Keyboard Mouse iPad Screen Microsoft Software e.g. PowerPoint Microbits that could be used as data loggers

Year 5

Words in **red** are additional to the previous year.

Computer Science	Digital Literacy & E-safety	Information Technology
<b>Key concepts</b>		
Programming Sequence Selection	Log on/ off Safe/Unsafe Real/Fake	Data Save Online/ Offline Reliable/ unreliable
<b>Vocabulary</b>		
Algorithm Debug Predict Execute Repeat Modify Input Output Conditional (if/ then)	Username Password Rules Cyber-bullying "Space bar" "Enter key" Edit Age rating/ restrictions Appropriate	Graph Presentation Link Pictograph Bar Chart Device Analyse Copy Paste Spreadsheet Database
<b>Software/ Hardware/ Resources</b>		
Beebots Purple Mash 2Code Instructional Vocabulary Laptops iPads Scratch Jnr Lego WeDo Microbits	Keyboard E-safety books Computers Laptops iPads	Purple Mash Computer Laptop Keyboard Mouse iPad Screen Microsoft Software e.g. PowerPoint Microbits that could be used as data loggers

Year 6

Words in **red** are additional to the previous year.

Computer Science	Digital Literacy & E-safety	Information Technology
<b>Key concepts</b>		
Programming Sequence Selection Repetition	Log on/ off Safe/Unsafe Real/Fake	Data Save Online/ Offline Reliable/ Unreliable
<b>Vocabulary</b>		
Algorithm Debug Predict Execute Repeat Modify Conditional (if/ then) Input Output <b>Variables</b>	Username Password Rules Cyber-bullying "Space bar" "Enter key" Edit Age rating/ restrictions Appropriate <b>Advert</b> <b>Copyright</b> <b>Anonymous / Anonymity</b> <b>Online Identity</b>	Pictograph Graph Presentation Link Bar Chart Device Analyse Copy Paste Spreadsheet Database
<b>Software/ Hardware</b>		
Beebots Purple Mash 2Code Instructional Vocabulary Laptops iPads Scratch Jnr Lego WeDo Microbits	Keyboard E-safety books Computers Laptops iPads	Purple Mash Computer Laptop Keyboard Mouse iPad Screen Microsoft Software e.g. PowerPoint Microbits that could be used as data loggers