



# Computing Curriculum Overview Year 6



<b>Concepts</b>	<b>Safety</b>	<b>Think</b> critically about the information they share with others (e.g. though social media, apps and games)	
	<b>Creation</b>	<b>Select, manipulate, edit and create</b> digital media from a wide range of sources to create a representation of a concept or data set	
	<b>Coding</b>	<b>Combine</b> algorithms to complete more complex tasks	
<b>Context</b>	<p>Children readily apply filters when searching for digital content. They are able to explain in detail how credible a webpage is and the information it contains. They compare a range of digital content sources and are able to rate them in terms of content quality and accuracy. Children use critical thinking skills in everyday use of online communication.</p> <p>Children make clear connections to the audience when designing and creating digital content. The children design and create their own blogs to become a content creator on the internet, e.g. 2Blog. They are able to use criteria to evaluate the quality of digital solutions and are able to identify improvements, making some refinements.</p>		

### Coding: Text Adventures

<b>Knowledge / Skills</b>	Children embark on an engaging journey into programming and storytelling. This unit enhances their coding skills, algorithmic thinking, and logical reasoning as they create interactive text-based adventures. They explore creative storytelling, learn to prompt user interaction, and develop problem-solving abilities while debugging their code. Through collaboration, children brainstorm ideas, test each other's adventures, and foster teamwork. By the end of this unit, children not only grasp coding principles but also excel in crafting captivating text adventures, fostering creativity, and enhancing their overall logical and problem-solving skills.	
<b>Vocabulary</b>	Refer to linked separate vocabulary document	

### Computing Systems and Networks Hardware Investigators Networks

<b>Knowledge / Skills</b>	Children embark on an exploration of computer hardware and network systems. This unit equips them with a deep understanding of computing hardware, such as processors, memory, and storage devices, and introduces them to various network components. They learn to investigate and analyse hardware setups, exploring their roles and functions within computer systems. Additionally, children delve into the world of networks, understanding how data is transmitted and received between connected devices. Through hands-on activities and collaborative learning, they gain practical insights into configuring and troubleshooting network connections. This unit empowers children to become proficient hardware investigators and network enthusiasts, fostering a comprehensive understanding of the technology that powers our digital world.	
<b>Vocabulary</b>	Refer to linked separate vocabulary document	

## Data and Information: Spreadsheets

Knowledge / Skills	Children embark on a captivating exploration of data management and analysis. This unit equips them with the skills to create and manipulate spreadsheets, fostering a deep understanding of how data is organized, structured, and used for various purposes. Children learn to input, format, and sort data, as well as perform calculations and create visual representations like charts and graphs. They gain insights into the significance of data accuracy and the importance of drawing meaningful conclusions from data sets. Through hands-on activities and collaborative tasks, children develop proficiency in spreadsheet software, empowering them to effectively handle and derive insights from data, a vital skill in today's data-driven world.	
Vocabulary	Refer to linked separate vocabulary document	
<b>Online Safety</b>		
Knowledge / Skills	Children understand the importance of keeping information, such as their usernames and passwords, private and actively demonstrate this in lessons. Children take ownership of their work and save this in their own private space such as their My Work folder on Purple Mash.	
Vocabulary	Refer to linked separate vocabulary document	
Skills application	Text adventures links to English narratives Computing systems and networks links to Science - Circuits Spreadsheets links to Maths Online safety links to PSHE	
Recap	5.1 Coding, 4.1 Coding, 3.1 Coding, 2.1 Coding, 1.5 Coding and 1.4 Coding 5.4 Databases, 4.4 Spreadsheets, 3.6 Branching Databases, 2.4 Questioning, 1.8 Spreadsheets 5.2 Online Safety, 4.2 Online Safety, 3.5 Email, 2.2 Online Safety, 1.1 Online Safety and Exploring Purple Mash	