



Computing Curriculum Overview Year 5



Concepts	Safety	Think critically about the information they share with others (e.g. though social media, apps and games)	
	Creation	Select, manipulate, edit and create digital media from a wide range of sources to create a representation of a concept or data set	
	Coding	Combine algorithms to complete more complex tasks	
Context	<p>Children search with greater complexity for digital content when using a search engine. They are able to explain in some detail how credible a webpage is and the information it contains.</p> <p>Children are able to make appropriate improvements to digital solutions based on feedback received and can confidently comment on the success of the solution. e.g. creating their own program to meet a design brief using 2Code. They objectively review solutions from others. Children are able to collaboratively create content and solutions using digital features within software such as collaborative mode. They are able to use several ways of sharing digital content, i.e. 2Blog, Display Boards and 2Email.</p>		

Coding

Knowledge / Skills	Learners embark on an exciting journey into the world of programming. This module equips them with the foundational skills needed to write and understand code. Children explore the logic and structure behind computer programs, helping them develop problem-solving and critical-thinking abilities. They engage in creative coding projects, where they learn to create simple programs, control animations, and even design basic games. Through hands-on activities and collaborative learning experiences, Year 5 students become adept at coding, setting the stage for future adventures in the digital realm.	
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Vocabulary	Refer to linked separate vocabulary document	
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Creating Media - Game Creator

Knowledge / Skills	Children embark on an exciting exploration of digital media creation, with a specific focus on game development. This unit equips them with the skills needed to craft interactive games. Children will dive into the world of game design, where they learn to generate ideas, create game assets, and develop gameplay mechanics. They'll explore storytelling through games and gain insights into the principles of user experience design. Through hands-on activities and collaborative projects, Year 5 students become proficient in creating engaging digital games, unleashing their creativity and honing their multimedia creation skills.	
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Vocabulary	Refer to linked separate vocabulary document	
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Data and Information: Databases

Knowledge / Skills	Children delve into the fascinating realm of data management and organization. This module equips them with the essential skills to work with databases effectively. Children learn how to create and manipulate databases, understanding the fundamental principles of data structure and storage. They discover how to input, query, and analyse data, as well as generate meaningful reports. Additionally, they grasp the importance of data accuracy, privacy, and security. Through hands-on activities and collaborative projects, Year 5 students develop proficiency in using database software, empowering them to manage and harness data's power in an increasingly data-centric world..	
Vocabulary	Refer to linked separate vocabulary document	
Online Safety		
Knowledge / Skills	Children have a secure knowledge of common online safety rules and can apply this by demonstrating the safe and respectful use of a few different technologies and online services. Children implicitly relate appropriate online behaviour to their right to personal privacy and mental wellbeing of themselves and others.	
Vocabulary	Refer to linked separate vocabulary document	
Skills application	Coding - logical problem solving linked to reasoning in maths English linked to adventure narratives Science - sorting and classifying information PSHE - Online safety	
Recap	4.1 Coding, 3.1 Coding, 2.1 Coding, 1.5 Coding and 1.4 Coding 4.4 Spreadsheets, 3.6 Branching Databases, 2.4 Questioning, 1.8 Spreadsheets 4.2 Online Safety, 3.5 Email, 2.2 Online Safety, 1.1 Online Safety and Exploring Purple Mash	