Computing

British Values

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Computing Fundamentals	Computing Fundamentals	Computing Fundamentals	Computing Fundamentals	Computing Fundamentals	Computing Fundamentals
	Children will learn essential skills in operating technology	Children will learn essential skills in operating technology	Children will learn essential skills in operating technology	Children will learn essential skills in operating technology	Children will learn essential skills in operating technology	Children will learn essential skills in operating technology
British Values	Rule of Law Individual Liberty Mutual Respect	Rule of Law Individual Liberty Mutual Respect	Rule of Law Individual Liberty Mutual Respect	Rule of Law Individual Liberty Mutual Respect	Rule of Law Individual Liberty Mutual Respect	Rule of Law Individual Liberty Mutual Respect
Half Tern	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety
	The online safety units within the Computing Scheme of Work provide in-depth coverage of computing related online safety aspects	The online safety units within the Computing Scheme of Work provide in-depth coverage of computing related online safety aspects	The online safety units within the Computing Scheme of Work provide in-depth coverage of computing related online safety aspects	The online safety units within the Computing Scheme of Work provide in-depth coverage of computing related online safety aspects	The online safety units within the Computing Scheme of Work provide in-depth coverage of computing related online safety aspects	The online safety units within the Computing Scheme of Work provide in-depth coverage of computing related online safety aspects
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Spring 1	Grouping and Sorting	Spreadsheets	Email	Effective Searching	Word Processing	Spreadsheets
	In this unit, the children will sort items by different criteria away from the computer. At the computer, they will use Grouping on Purple Mash to sort items.	In this unit, children will learn how to use and create spreadsheets using skills such as copying and pastings and using these to create table and block graphs	In this unit, children will look at his to compose and send emails both with and without attachments and how to do this safely in order to grow in confidence using Email applications	This unit builds upon the skills and knowledge developed in Year 2 in Unit 2.5 – Effective Searching. The lesson makes use of the Google search engine	For this unit children will learn how to use Microsoft Word effectively and the different functions it has including saving, fonts and inserting images	This year the unit will aim to put 2Calculate to practical use as a tool for computational modelling and problem solving in the 'real world' such as working out discounted prices and other scenarios involving money
British Values	Mutual Respect Democracy	Mutual Respect Democracy	Mutual Respect Democracy	Mutual Respect Democracy	Mutual Respect Democracy	Mutual Respect Democracy
Spring 2	Pictograms	Questioning	Touch Typing/Simulations	Logos/Animations	Databases	BLOGGING/Networks
	This unit is an introduction to pictograms and looking at how they can be used to represent data	This unit is designed to help children learn about the importance of phrasing questions and that certain data-handling resources are limited in the answers they can provide.	The first unit of work uses 2Type which can be found within the Tools area of Purple Mash and is designed to help the children learn the basics of quick and efficient typing. The second unit aims to teach children what a simulation is and their purpose before giving them the opportunity to explore and evaluate them	In the first unit they will learn common commands and constructs of the Logo programming language.as well as develop their ability to compose algorithms for drawing mathematical structures and turn these into Logo code In the second unit will provide the children with the knowledge and understanding to create simple and more complex animations using 2Animate on Purple Mash.	Children will be using the database program 2Investigate to learn about the functions of databases and create a class database and a topic database	Blogging is a unit of work that uses the Purple Mash tool 2Blog and is designed to help children learn the basic principles of creating and maintaining a blog in a controlled and safe environment, it will give children a basic understanding of how to plan, create and present their own blog. The aim of the networks unit is to provide children with the opportunity to find out more about how networks work, understand computer networks including the Internet, learn how they can provide multiple services, such as the World Wide Web, and explore the opportunities they offer for communication and collaboration.
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Half Term	Lego builders/Maze explorers	Effective Searching	Coding	Coding	Coding	Spreadsheets - Excel
	This unit encourages children to begin to think logically about scenarios. Children will be introduced to the term 'algorithm'. This concept is at the core of coding. The next unit (Maze Explorers), builds upon this, linking logical thought processes to the way that computers are programmed.	This unit will allow the children to develop an understanding of what the Internet is. It will also give them the basic tools to help them search for information more effectively.The lessons are not tied to a browser, but the screenshots are all from Chrome.	The coding lessons in these units are structured around the PRIMM approach. The whole approach may take place during a lesson or series of lessons.Predict... what this code will do, Run... the code to check your prediction, Investigate... trace through the code to see if you were correct, Modify... the code to add detail, change actions/outcome, Make... a new program that uses the same ideas in a different way.	The coding lessons in these units are structured around the PRIMM approach. The whole approach may take place during a lesson or series of lessons.Predict... what this code will do, Run... the code to check your prediction, Investigate... trace through the code to see if you were correct, Modify... the code to add detail, change actions/outcome, Make... a new program that uses the same ideas in a different way.	The coding lessons in these units are structured around the PRIMM approach. The whole approach may take place during a lesson or series of lessons.Predict... what this code will do, Run... the code to check your prediction, Investigate... trace through the code to see if you were correct, Modify... the code to add detail, change actions/outcome, Make... a new program that uses the same ideas in a different way.	For this unit children will learn how to use Microsoft Excel effectively and the different functions it has including formulas and tables
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Half Tern	Animated Storybooks	Coding	Presentation using Powerpoint	Making music	Game Creator	Understanding Binary
	The series of lessons will provide an opportunity for the children to develop the skills to create, organise, store, manipulate and retrieve digital content through the creation of their own animated story book.	The coding lessons in these units are structured around the PRIMM approach. The whole approach may take place during a lesson or series of lessons.Predict... what this code will do, Run... the code to check your prediction, Investigate... trace through the code to see if you were correct, Modify... the code to add detail, change actions/outcome, Make... a new program that uses the same ideas in a different way.	For this unit children will learn how to use Microsoft Powerpoint effectively and the different functions it has including transitions and animations	The lessons encourage children to discuss and experiment with the main elements of a piece of music and allows them to compose themselves.	In this unit the children will be analysing and reviewing games before designing their own games and ending with them completing peer and self evaluations of the games they have created	The unit covers the binary system which involves the children writing digital data that involves just 0's and 1's
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