Computing Curriculum Map 2022-23

	Nursery	Reception	Year 1	Year 2
Autumn	Beebots	E-safety - how to keep safe on the Internet • Interactive stories – topic related • Interactive games • Using Laptops • Investigating the force of wind using a hairdryer	Online Safety and Exploring Purple Mash *Keeping safe online *Safe Logins *My Work Area *Purple Mash Topics *Purple Mash Tools Lego Builders *Following instructions. *Following and creating simple instructions on the computer. *To consider how the order of instructions affects the result.	Online Safety Coding *Algorithms *Creating a computer program using an algorithm. *Sequences. Making Music *To be introduced to making music digitally using 2Sequence. *To explore, edit and combine sounds using 2Sequence. *To add sounds to a tune to improve it. *To think about how music can be used to express feelings and create tunes which depict feelings. *To upload a sound from a bank of sounds into the Sounds section. *To record their own sound and upload it into the Sounds section. *To create their own tune using the sounds which they have added to the Sounds section
Spring	E-safety - how to keep safe on the Internet	E-safety - how to keep safe on the Internet Interactive stories – topic related Interactive games	Online Safety Grouping and Sorting *To sort items using a range of criteria – Offline.	Online Safety *To refine searches using the Search tool on Purple Mash. *To know how to share work.

	Bar chart of favourite zoo animal. Bee Bots – Directions to get to a jungle animal. Introducing buttons.	iPads: drawing the Gingerbread Man Beebots: The Gingerbread man's journey – directional language Signs of Winter / Spring: using digital camera/iPod Torches – shadow puppets.	*To sort items using a range of criteria – Online Pictograms *To understand that data can be presented in picture format. *To understand how pictograms are made. Maze Explorers *Introduction to coding (offline). *Introduction to coding using 2Go using functionality keys. *Introduction to coding using 2Go recording instructions. *Using coding to set challenges.	*To know that Email is a way to communicate. *To open and send online communication in the form of an email. *To understand what a digital footprint is. *To identify how to keep personal data and hardware secure. Presenting Ideas *To explore how a story can be presented in different ways *To make a quiz about a story or class topic. *To make a fact file on a non-fiction topic. *To make a presentation to the class.
Summer	Interactive stories - topic related. Friction toys Toys with moving parts Making Biscuits	Interactive stories – topic related. Interactive games. Using Laptops and iPads. Beebots - The journey of the Little Red Hen. Using a toaster and bread machine. How long does it take to boil an egg?	Online Safety Spreadsheets *Introduction to Spreadsheets *To be able to navigate around a spread sheet and enter data. *To learn new vocabulary related to spreadsheets *Adding Images to a Spreadsheet and Using the Image Toolbox. *To use the 'Speak' and 'Count' Tools in 2Calculate to Count Items.	Online Safety Questioning *Using and Creating Pictograms - To show that the information provided on pictograms is of limited use beyond answering simple questions *Asking Yes / No Questions - To use yes/no questions to separate information *Binary Trees - To construct a binary tree to separate different items.

			Animated Story Books *Drawing and Creating - To understand the differences between traditional books and e-books. *To explore the tools of 2Create a Story's My Simple Story level. To save the page they have created. *Animation - To add animation to a picture. To play the pages created so far. To save the additional changes and overwrite the file. *Sounds and More! - To add a sound effect to a picture. To add a voice recording to the picture. To add created music to the picture *Making a Story - To add a background to the story. To demonstrate a good understanding of all the tools they have used in 2Create a Story and use these successfully to create their own story *Copy and Paste - To use the copy and paste feature to create additional pages. To continue and complete an animated story. To create a	*Using 2Question - a ComputerBased Binary Tree Program - Use 2Question (a binary tree) to answer questions *Using 2Investigate: a NonBinary Database - To use a database to answer more complex search questions. *To use the Search tool to find information. Creating Pictures *Introduction and Impressionism - To explore 2Paint A Picture. *To look at the work of Impressionist artists and recreate them using the Impressionism template *Pointillist Art - To look at the work of pointillist artists such as Seurat. *To recreate pointillist art using the Pointillism template. *Piet Mondrian - To look at the work of Piet Mondrian and recreate it using the Lines template *William Morris and Pattern - To look at the work of William Morris and recreate it using the Patterns template *Surrealism and eCollage - To look at some surrealist art and create your own using the eCollage function in 2Paint A Picture

			class display board of the story books created by the class. Tech Outside School	
			*What is Technology? - To find and understand examples of where technology is used in the local community. *Technology outside school - To record examples of technology outside school.	