3. Progression + Coverage of Core Knowledge + Skills - COMPUTING

			-	,		Robert Miles		
	Autumn 1 7 weeks	Autumn 2 7 weeks	Spring 1 5 weeks	Spring 2 6 weeks	Summer 1 6 weeks	Summer 2 7 weeks		
Topic	In the	e Garden	Time Trave	llers	Around the World in 80 days			
Coverage Overview	Digital Literacy PM Unit 1.1: Online Safety and Exploring Purple Mash (4)	Information Technology PM Unit 1.3: Pictograms (3) Maths	Computer Science (Programming) PM Unit 1.5: Maze explorers (4)	Information Technology PM Unit 1.6: Animated Story books (5) English / Arts	Computer Science (Programming) / Information Technology	Information Technology PM Unit 1.8 Spreadsheets (3) Maths		
	Information Technology PM Unit 1.2: Grouping and Sorting (2) Maths	Computer Science (Programming) Revisit – Beebots (1) PM Unit 1.4: Lego Builders (3)	Digital Literacy - E-Safety Whole school focus. Ongoing / revisited in other terms.		PM Unit 1.7 Coding (6)	Digital Literacy PM Unit 1.9: Technology Outside school (2)		
Core Knowledge	I understand what is meant by 'technology' and can identify some examples. (DL) I know and understand why I have to log-in to access a computer. (DL) I know why it is important to keep my password private. (DL) I know that I can save work in	I know that data can be represented in a picture format. (IT) I know that pictograms are charts / graphs that represent data in a simple way. (IT) I know than an algorithm is a set of clear and precise instructions to solve a problem or achieve an aim. (CS)	I know how to use the direction keys to move forwards, backwards, left and right. (CS) I know how to create a simple algorithm. (CS) I know I need to debug my algorithm to make sure it works properly. (CS) I know than an algorithm must be followed in order, to solve a problem or achieve an aim. (CS) Digital Literacy - E-Safety: I know why it is important to be kind and polite, including when online, and can talk about ways	I know the difference between a traditional book and an e-book. (IT) I know what the space bar is and can use it to make spaces between words. (IT) I know how to add simple punctuation to my text, e.g. full stop. (IT) I know how to save my work. (IT) I know how to open previously saved work. (IT)	I know how to create a simple algorithm. (CS) I know I need to debug my algorithm to make sure it works properly. (CS) I know that my code is executed when the program is run. (CS)	I know what rows and columns are on a grid. (IT) I know that a spreadsheet can help me to store and organise information. (IT) I know some of the ways that technology is used in our lives in and out of school. (DL). I understand and can talk about some of the ways technology		
	a set place so that I can retrieve it at a later stage. (IT) I know what an 'avatar' is and why we use them. (DL)	I know that an algorithm written for a computer or programable toy is called a 'program'. (CS) I know that correcting an error in an algorithm is called 'debugging'. (CS)	to do this / what I should do if someone is unkind to me. (DL) I know that some devices can connect users with other people, e.g. phones, internet, Xbox etc. (DL) I know that not everyone is who they say they are on the internet. (DL). I know to tell an adult when I see something unexpected or worrying online (DL).	I know that the style of font can be changed and will affect the overall appearance of my work. (IT)		makes our loves easier. (DL)		
Skills Development	I can log in safely, using my password, with some support. (DL/IT) I can save my work in a designated place, with some support. (IT) I can use the tools to create an avatar to represent myself. (IT) I can use the keyboard to type my name independently. (IT) I can sort items, both online and offline, using a range of criteria. (IT)	I can use the keyboard to enter data into a simple pictogram and use it to find answers to simple questions / explain what the pictogram shows. (IT) I can follow a given sequence to program a floor robot to move in a planned way, inc forwards, backwards and turns. (CS) I can use symbols to represent an instruction in the correct order, e.g.	I can use the direction keys to create a new algorithm. (CS) I can work out what is wrong with a simple algorithm and debug it to correct it. (CS) Digital Literacy - E-Safety: I can identify what personal information is and understand that I should not share this online. (DL) I can talk about some of the ways to keep safe online. (DL) I can seek support from a trusted adult if I am worried about something I have seen online. (DL)	I can use a paint program to create pictures, changing the size and colour of the pen. (IT) I can access the tools in a paint program to draw shapes and fill them with colour. (IT) I can change the background on my page. (IT) I can begin to change some features of the text, e.g. font style and size. (IT) I can add an image or sound clip to my storybook. (IT) I can use the keyboard to type words and phrases. (IT) I can save my work, in a designated space and retrieve it at a later stage, with some support. (IT	I can create a program using code blocks. (CS) I can draw symbols to represent instructions. (CS) I can arrange code blocks to create a set of instructions. (CS). I can edit a scene by adding, deleting or moving objects. (IT) I can change the size of objects. (IT)	I can enter data into a simple spreadsheet and begin to explain what the data tells us. (IT) I can use the 'lock' took to prevent changes to cells. I can use the image toolbox to find and add an image. (IT) Extension: I can use the spreadsheet to help work out a fair way to share items. (IT) I can explain what is meant by 'technology' and can identify a variety of examples in and out of school. (DL)		

Year: **1**

Subject Leader: **K.Ryan**

3. Progression + Coverage of Core Knowledge + Skills - COMPUTING

	Autumn 1 7 weeks			Autumn 2 7 weeks		Spring 1 5 weeks		Spring 2 6 weeks		Summer 1 6 weeks		Summ Robert Miles	
Topic: In			the Garden			Time Travel		llers		Around the W		orld in 80 days	
	Log in Password Private Save	Folder Avatar Image Sort	Data Pictogram Tally/ chart	Program Algorithm Instructions Clear	Sequence Symbol Arrows Directional	Internet Online Communication Cyberbullying	Program Algorithm Instructions Clear	Traditional book e-book Space bar	Font Size Style Appearance	Program Algorithm Instructions Clear Precise	Run Code Code blocks	Spreadsheet Data Cell Row	Technology Devices
Critical Vocab	Safety Retrieve	Criteria Grouping	Represent Keyboard Type		vocabulary Error Debug /Fix	Personal Information Permission Log-in / Password Right Privacy Devices	Precise In order Sequence Arrows Directions Keys Error Debug Correct	Keys Type Save Open / retrieve Folder Paint program Tools	Image Sound clip	In order Sequence	Error Debug	Column Grid Formula	
Enrichment Opportunities	Sorting plants / minibeasts Sorting plants / minibeasts		around the	Challenge the children to move BeeBot around the garden. Purple Mash Festive Card Design competition		E-Safety day / week (Feb)		Time travelling adventure stories					
Assessing Impact	Login independently and open Purple Mash and use search bar to find resources. Can apply sorting skill within Purple Mash using the range of sorting activities with more than one criterion.		record the (demonst collated d represent	Collate data from rolling a die and record the results within 2Count (demonstrating that they can group collated data into pictorial representations)		Create a set of written instructions for other children to follow using the 'coders and robot' game Use the 'list' feature in 2Go to generate an algorithm to solve a given problem. Digital Literacy - E-Safety: Discussions with pupils E-safety quiz		Use the 'My S 2Create a Stor interactive sto	,	o create an controls the look and the		Using the 2Calculate spreadsheet, children can save and open sheets (Unit 1.8 Lesson enter data into cells, manipulate data using the 'move cell' tool and use the image toolbox to add clipart. Can you give 3-4 examples of how where technology is used and how this helps our lives?	

Year: **1**

Subject Leader: **K.Ryan**