2019-20	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	
			Class 1 (R/Y1)				
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Computing	In Reception, children build an awareness of technology and explore its uses. They select and use technology for particular pu						
	Children use iPads, me	chanical toys, progran	nmable robots, digital	cameras and a range of	software to support the	heir learning.	
			Class 2 (Y1/2)				
Computing	Online safety	Questioning	Animated story	Making	Pictograms	Presenting ideas	
Computing	Pupils will learn what	To learn about	books	To make music	To understand	To explore how a	
	is a password and	data handling tools	To introduce e-	digitally. To explore,	that data can be	story can be	
	why should we keep	that can give more	books. To add	edit and combine	represented in	presented in	
	them safe; what a	information than	animation to a	sounds. To edit and	picture format. To	different ways. To	
	digital avatar is and	pictograms. To	story. To add	refine composed	contribute to a	make a quiz about	
	why it is better than a	use yes/no	sound to a story,	music. To think about	class pictogram.	a story or class	
	picture of yourself; the	questions to	including voice	how music can be	To use a	topic. To make a	
	only person that can	separate	recording and	used to express	pictogram to	fact file on a non-	
	see your saved work	information. To	music the children	feelings and create	record the results	fiction topic. To	
	is the teacher and	construct a binary	have composed.	tunes which depict	of an experiment.	make a	
	yourself.	tree to identify items. To use a	To work on a more complex story,	feelings. To upload a sound from a bank of		presentation to the class.	
	Maze explorers	database to	including adding	sounds. To record		ciass.	
	To understand the	answer more	backgrounds and	and upload			
	functionality of the	complex search	copying and	environmental			
	direction keys. To	questions. To	pasting pages. To	sounds. To use these			
	understand how to	search to find	share e-books on	sounds to create			
	create and debug a	information.	a class display	tunes.			
	set of instructions		board.				
	(algorithm). To use	Online safety		Spreadsheets			
	the additional direction	To know how to		To use an image,			
	keys as part of an	refine searches.		lock, move cell, speak			
	algorithm. To	To use digital		and count tools to			
	understand how to	technology to share work and		make a counting machine. To learn			
	change and extend						
	the algorithm list. To	communicate and		how to copy and			

	create a longer algorithm for an activity. To set challenges for peers. To access peer challenges set by the teacher.	connect with others locally. To have some knowledge and understanding about sharing more globally on the Internet. To introduce Email as a communication tool. To understand how we should talk to others in an online situation. To open and send simple online communications in the form of email. To understand that information put online leaves a digital footprint or trail. To identify the steps that can be taken to keep personal data and hardware secure.		paste. To use the totalling tools. To use a spreadsheet for money calculations. To use the equals tool to check calculations. To collect data and produce a graph.		
			Class 3 (Y2/3)	,		
Computing	Coding To design algorithms using flowcharts. To design an algorithm that represents a physical system and code this representation. To use	Spreadsheets To use the symbols more than, less than and equal to, to compare values. To collect data and produce a	e-mail To think about different methods of communication. To open and respond to an email using an address book. To	Branching databases To sort objects using just 'yes' or 'no' questions. To complete a branching database. To create a branching database	Simulations To consider what simulations are. To explore a simulation. To analyse and evaluate a simulation.	Graphing To enter data into a graph and answer questions. To solve an investigation and present the results in graphic form.

	selection in coding with the 'if' command. To understand and use variables. To deepen understanding of the different between timers and repeat commands.  Online safety To know what makes a safe password. Methods for keeping passwords safe. To understand how the Internet can be used in effective communication. To understand how a blog can be used to communicate with a wider audience. To consider the truth of the content of websites. To learn about the meaning of age restrictions symbols on digital media and devices.	variety of graphs. To learn about cell references.  Touch typing To introduce typing terminology. To understand the correct way to sit at the keyboard. To learn how to use the home, top and bottom row keys. To practice typing with the left and right hand.	learn how to use email safely. To add an attachment to an email. To explore a simulated email scenario.	of the children's choice.		
			Class 4 (Y4/5)			
Computing	Coding To represent a program design and algorithm. To create a program that simulates a physical system using	Online safety To gain a greater understanding of the impact that sharing digital content can have. To review sources	Spreadsheets Using the formula wizard to add a formula to a cell to automatically make a calculation in that cell. To	Databases To learn how to search for information in a database. To contribute to a class database. To create a database around a	3D modelling To be introduced the skills of computer aided design. To explore the effect of moving points	Concept maps To understand the need for visual representation when generating and discussing complex ideas. To

explore string and text variable types so that the most appropriate can be used in programs. To use the Launch command. To program a playable	of support when using technology and children's responsibility to one another in their online behaviour. To know how to maintain secure passwords. To understand the advantages, disadvantages, permissions and purposes of altering an image digitally and the reasons for this. To be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online. To learn about how to reference sources in their work. To search the Internet with a consideration for the reliability of the	copy and paste. Test a hypothesis. To add a formula to a cell to automatically make a calculation in that cell. Using a spreadsheet to model a real-life situation and answer questions.	Chosen topic.  Game creator To set the scene. To create the game environment. To create the game quest. To finish and share the game. To evaluate their and peers' games.	when designing. To understand designing for a purpose. To understand printing and making.	understand and use the correct vocabulary when creating a concept map. To create a concept map. To understand how a concept map can be used to retell stories and present information. To create a collaborative concept map and present this to an audience.
	in their work. To search the Internet with a				

	Class 5 (Y5/6)						
Computing	Coding To use the program design process, including flowcharts, to develop algorithms for more complex programs using and understanding of abstraction and decomposition to define the important aspects of the program. To code, test and debug from these designs. To use functions and tabs to improve the quality of the code.  Online safety Identify benefits and risks of mobile devices broadcasting the location of the user/device. Identify secure sites by looking for privacy seals of approval. Identify the benefits and risks of giving personal information. To review the meaning of a digital footprint. To have a clear idea of appropriate online behaviour. To begin to	Spreadsheets To use a spreadsheet to investigate the probability of the results of throwing many dice. Using the formula wizard to add a formula to a cell to automatically make a calculation in that cell. To create graphs showing the data collected. To type in a formula for a cell to automatically make a calculation in that cell. Using a spreadsheet to create computational models and answer questions.	Blogging To identify the purpose of writing a blog and its key features. To plan the theme and content for a blog and write the content. To consider the effect upon the audience of changing the visual properties of the blog. To understand the importance of regularly updating the content of a blog. To understand how to contribute to an existing blog. To understand how and why blog posts are approved by the teacher.	Text adventures To find out what a text adventure is. To plan a story adventure. To make a story-based adventure. To introduce map-based text adventures. To code a map-based text adventure.	Networks To learn about what the Internet consists of. To find out what a LAN and a WAN are. To find out how the Internet is accessed in school. To research and find out about the age of the Internet. To think about what the future might hold.	Quizing To create a picture-based quiz for young children. To learn how to use question types. To explore grammar quizzes. To make a quiz that requires the player to search a database.	

understand how	
information online can	
persist. To understand	
the importance of	
balancing game and	
screen time with other	
parts of their lives. To	
identify the positive	
and negative	
influences of	
technology on health	
and the environment.	