Curriculum Overview

Years FS2-6

Autumn 1 Autumn 2 Spring 1 Spring 2 Summer 1 Summer 2 FS2: Coverage based on Child Initiated learning opportunities, mini Mash and technology opportunities in continuous provision Knowledge and With support begin to save Skills their work their work their work their work their work their work (to happen With support begin to be continuously able to loa in and out able to loa in and out able to log in and out able to loa in and out able to log in and out able to loa in and out through the year Use a mouse to move the via Adult led and cursor cursor cursor cursor cursor cursor child initiated Explore a range of opportunities) technology technology technology technology technology technology Know that a keyboard is made up of letters, numbers and symbols and symbols and symbols and symbols and symbols and symbols Understand and follow a set of simple instructions To use a range of simple programmable toys (e.g. beebots) beebots) beebots) beebots) beebots) beebots) Copy actions to make something happen (e.g. take a photo) a photo) a photo) a photo) a photo) a photo) Identify when something is not working correctly Name and identify different types of technology (e.g. computer camera, computer camera, computer camera, computer camera, computer camera, computer camera, microwave) microwave) microwave) microwave) microwave) microwave) Name the parts of different types of technology e.g a mouse and keyboard) Know that a specific program is needed for a specific job specific job specific job specific job specific job specific job Recognise the ways technology is used in the technology is used in the

Subject: Computing

	classroom, at home and in					
	the community					
	Begin to recognise the					
	difference between the					
	virtual and the real world					
Key Vocabulary	Log in, Username,					
	Password, My Work, Log					
	out, Save,					
	Keyboard, Mouse, Screen,					
	Direction, Monitor,					
	Computer, Arrow,					
	Spacebar, Enter Arrow					
	keys, Backspace key,					
	Cursor, Delete key, Undo,					
	Rewind, Beebot, Program,					
	Forward, Backwards, Right					
	turn, Left turn, Debug,					
	Instruction, Algorithm,					
	Action, Button, Character,					
	Image	Image	Image	Image	Image	Image
			Year 1			
Knowledge	Online Safety and	Pictograms – 3 weeks	Maze Explorers- 3	Coding - 6 weeks	Spreadsheets - 3 weeks	Assessment for
	Exploring Purple Mash -	(2Count)	weeks(2Go)	(2Code)	(2Calculate)	Learning based
	4 weeks	To understand that data	To understand the	To understand what	To know what a	intervention.
	To become familiar with	can be represented in	functionality of the	coding means.	spreadsheet program	
	the icons and types of	picture format.	direction keys.		looks like.	
	resources available in the	pierare formar.	all certain keys.	To know the save, print,	Tooks into:	
	Topics section.	To know what a	CS1 Understand that the	open and new icon.	To know which icon will	
	Topics section.			open and new icon.		
	T 1 21115 1 1	pictogram is	word algorithm means a		open 2Calculate in Purple	
	To build knowledge on		set of instructions	CS1 Understand that the	Mash.	
	how the Tools and Games	Lego Builders - 3 weeks		word algorithm means a		
	section of Purple Mash	(2DIY)	To understand how to	set of instructions		
	works		change and extend the	Set of manuchons	Technology Outside of	
		To consider how the	algorithm list.		School - 2 weeks	
		order of instructions				

	OS1 Know that we use passwords to keep information safe Grouping and Sorting -2 weeks (2DIY) - To understand how to group and sort items and why this is useful	CS1 Understand that the word algorithm means a set of instructions	Animated Stories - 3 weeks plus 2 lesson linked to English (2Create A Story) To be introduced to an understand e-books and the 2Create a Story tool.	CS4 Understand that the word debug means a mistake on the computer	DL1 1.Understand that the internet can be used to talk to other people. 2. Understand that they need permission from an adult to use the internet DL6 Understand that not everything they see online is true
Skills	Online Safety and Exploring Purple Mash - 4 weeks OS6 1. Talk about why it's important to be kind and polite online 2. Understand that we have online safety rules to keep us safe and talk about some of these rules IT1 Save work via an app or when the saving location has been set by an adult IT2 To be able to safely and correctly log out	Pictograms - 3 weeks (2Count) IT4 Confidently use a range different technology tools Lego Builders - 3 weeks (2DIY) To compare the effects of adhering strictly to instructions to completing tasks without complete instructions. CS1 Give instructions to a classmate (using	Maze Explorers- 3 weeks(2Go) IT5 Use the space bar, backspace, enter, lowercase letters and numbers on a keyboard on any device (including on a tablet) to enter text CS1 Give instructions to a classmate (using forward, backward and turn) and physically follow their instructions. CS3 Describe what actions they will need	Coding - 6 weeks (2Code) CS1 Give instructions to a classmate (using forward, backward and turn) and physically follow their instructions CS2 Program a robot or software to do a simple movement CS3 Describe what actions they will need to do to make something happen CS5 Begin to predict what will happen for a	Spreadsheets - 3 weeks (2Calculate) IT1 Save work via an app or when the saving location has been set by an adult IT9 Confidently use a range different technology tools IT10 Begin to use technology to create and present my ideas Technology Outside of School - 2 weeks

			1		DIAT II I III	
	and shut down from	forward, backward and	to do to make	simple sequence of	DL4 Talk about the	
	any website or device	turn) and physically	something happen	instructions	similarities and	
	Use a mouse to control	follow their			differences between	
	a cursor and use the	instructions.		IT1 Save work via an	the Internet and things	
	left click to select		CS5 Begin to predict	app or when the saving	in the physical world	
	options	CS2 Program a robot	what will happen for a	location has been set		
	options	or software to do a	simple sequence of	by an adult	DL3 Recognise the ways	
	IT4 Confidently use a	simple movement.	instructions		technology is used in	
	· · · · · · · · · · · · · · · · · · ·				the classroom, at home	
	range different	CS3 Describe what	Animated Stories - 3		and in the community	
	technology tools	actions they will need	weeks plus 2 lesson		, and m are comment,	
		to do to make	linked to English			
	DL5 Begin to use a	something happen	(2Create A Story)			
	search engine to find	Joinetining Happen				
	information		IT4 Confidently use a			
			range different			
	Grouping and Sorting -2		technology tools			
	weeks (2DIY) -					
			IT6 Say what is good			
	IT4 Confidently use a		about their work			
	range different		about their work			
	technology tools					
Key Vocabulary	Log in, Username, Password,	Pictogram, Data, Collate	Direction, Challenge, Arrow,	Action, Background, Button,	Arrow keys, Backspace key,	
	Avatar, My Work, Log out,		Undo, Rewind, Forward,	Character, Code block, Code	Cursor, Columns, Cells,	
	Save, Notification, Topics,		Backwards, Right turn, Left	Design, Coder, Coding,	Clipart, Count Tool, Delete	
	Tools	Instruction, Algorithm,	turn, Debug, Instruction,	Collision Detection,	key, Image Toolbox, Lock	
		Computer, Program, Debug	Algorithm	Command, Design Mode,	tool, move cell tool, Rows,	
	Sort, Criteria		Animation, E-Book, Font,	Input, Object, Program,	Speak tool, Spreadsheet	
			File, Sound Effect, Display Board	Properties, Scale, Stop command, Sound, When	Technology	
			Dour u	clicked, When key	rechilology	

			Year 2			
Knowledge	Coding - 6 weeks (2Code) To understand what an algorithm is.	Online Safety - 2 weeks To know how to refine searches using the Search tool.	Questioning - 6 weeks (2 Question and 2 Investigate) To learn about data	Effective Searching - 3 Weeks (Browser) To understand the terminology associated	Creating Pictures (cont) - 2 weeks (2Paint a Picture) (see previous column)	Making Music - 3 weeks (2Sequence) To know that 2Sequence
	To know there are different object types. To know what debugging	To have some knowledge and understanding about sharing more globally on the Internet.	handling tools that can give more information than pictograms.	with searching. To gain a better understanding of searching on the	Presenting Ideas – 4 weeks To understand how a	can be used to create music digitally. To understand how music can be used to express
	means	DL1 Understand that the internet can be used to communicate with people anywhere in the world		Internet. Creating Pictures - 3 weeks (2Paint a Picture) To know what functions	story can be presented in different ways using technology.	feelings and create tunes which depict feelings. Assessment for Learning based intervention.
		To know how Email is used as a communication tool. To understand how we		can be used on the 2Paint a Picture tool. To learn about and recreate the		
		should talk to others in an online situation. To understand that		Impressionist style of art (Monet, Degas, Renoir). To learn about the work		
		information put online leaves a digital footprint or trail.		of Piet Mondrian and the styles he used and how we might use technology to recreate these		
		Spreadsheets - 4 weeks (2Calculate)		To learn about the work of William Morris and the styles he used and how we might use		

Skills	Coding - 6 weeks (2Code)	Online Safety - 2 weeks	Questioning - 6 weeks (2 Question and 2	Effective Searching - 3 Weeks (Browser)	Creating Pictures (cont) - 2 weeks (2Paint a	Making Music - 3 weeks (2Sequence)
	CS1 Confidently predict what will happen for a sequence of instructions CS2 Say whether an algorithm works and achieves the goal CS3 Describe the algorithm they will need for a task CS4 Use the word debug confidently CS5 Watch a program work and spot where it goes wrong so that they can debug it. Say what could be changed about an	DL5 Confidently use a search engine to find information IT4 Independently use technology to create, manipulate and present their ideas OS6 1. Explain in their own words the schools online safety rules e.g. SMART rules 2. Give examples of how they can be kind and polite online OS2 Discuss why they need to keep personal information private	Investigate) IT9 Create different effects with different technology tools DL5 Confidently use a search engine to find information	DL4 Identify benefits of using technology including finding information, creating and communicating DL5 Confidently use a search engine to find information IT3 and IT4 Independently use technology to create, manipulate and present their ideas DL1 Understand that the internet can be used to communicate with people anywhere in the world	Picture) (see previous column) Presenting Ideas - 4 weeks IT3 and IT4 Independently use technology to create, manipulate and present their ideas	CS1 Confidently predict what will happen for a sequence of instructions CS5 Watch a program work and spot where it goes wrong so that they can debug it. Say what could be changed about an algorithm to make it better Confidently predict what will happen for a sequence of instructions IT1 Save and retrieve work
	algorithm to make it better Confidently predict what will happen for a sequence of instructions CS6 Use programming hardware/software or apps to programme	Spreadsheets - 4 weeks (2Calculate) IT3 Independently use technology to create, manipulate and present their ideas		Creating Pictures - 3 weeks (2Paint a Picture) IT1 Save and retrieve work IT2 Use a mouse to control a cursor and		Assessment for Learning based intervention.

	more complex movements	IT9 Create different effects with different technology tools		use the left and right click IT4 Independently use technology to create, manipulate and present their ideas		
Key Vocabulary	Action, Algorithm, Bug, Character, Code block, Code design, Command, Debug/Debugging, Design mode, Input, Object, Properties, Repeat, Scale, Timer, When clicked, When key	Search, Display board, Internet, Sharing, E-mail, Attachment, Digital footprint Backspace key, Copy and paste, Columns, Cells, Count Tool, Delete key, Equals tool, Image toolbox, Lock tool, Move cell tool, Rows, Speak tool, Spreadsheet	Pictogram, Question, Data, Collate, Binary tree, Avatar, Database	Internet, Search, Search Engine Impressionism, Palette, Pointillism, Share, Surrealism, Template	Impressionism, Palette, Pointillism, Share, Surrealism, Template Concept map (mind map), Node, Animated, Quiz, Non- Fiction, Presentation, Narrative, Audience	BPM, Composition, Digitally, Instrument, Music, Sound effects (sfx), Soundtrack, Tempo, Volume
			Year 3			
Knowledge	Coding - 6 weeks (2Code) To understand how to design algorithms using flowcharts. To know what codes are needed to design an algorithm that represents a physical system. To understand variables in 2Code.	Online Safety - 3 weeks To know what makes a safe password. To understand what methods can be used for keeping passwords safe. To understand how the Internet can be used in effective communication. To understand how a blog can be used to	Touch Typing - 4 weeks (2Type) To have some knowledge of typing terminology. To understand the correct way to sit at the keyboard. To know the use of the home, top and bottom row keys.	Emails (cont) - 4 weeks (2Email, 2 Connect and 2 DIY) (see previous column) Branching Databases - 2 weeks (2Question) To understand a branching database and how to sort objects using just 'yes' or 'no' questions.	Branching Databases (cont) - 2 weeks (2Question) (see previous column) Simulations - 3 weeks (2Simulate and 2Publish) To consider what simulations are. To know what tools are needed to work a simulation.	Graph - 3 weeks (2Graph) To know how to enter data into a graph and answer questions. Assessment for Learning based intervention.

		communicate with a wider	Emails - 2 weeks			
	To deepen understanding	audience.	(2Email, 2 Connect and			
	of the different		2 DIY)			
	variables.	To consider the truth of	To understand different			
		the content of websites.	methods of			
			communication.			
		To learn about the				
		meaning of age	To know the rules of how			
		restrictions symbols on	to use email safely.			
		digital media and devices.				
		OS6 1. Understand the				
		consequences of not				
		communicating kindly and				
		respectfully online				
		Spreadsheets - 3 weeks (2Calculate)				
		To understand the				
		symbols more than, less				
		than and equal to, to				
		compare values.				
Skills	Coding - 6 weeks	Online Safety - 3 weeks	Touch Typing - 4 weeks	Emails (cont) - 4 weeks	Branching Databases	Graph - 3 weeks
	(2Code)	OS1 Keep their school	(2Type)	(2Email, 2 Connect and	(cont) - 2 weeks	(2Graph)
	CS1 Confidently predict	passwords safe and	· // /	2 DIY)	(2Question)	
	what will happen for a	private and explain the	IT5	(see previous column)	(see previous column)	IT10 Talk about the
	more complex	importance of this				different ways in which
	sequence of	importance or this	Emails - 2 weeks			information can be
	instructions	DL1 Discuss different	(2Email, 2 Connect and	Branching Databases -	Simulations - 3 weeks	shown
	I I Str dottoris	ways to communicate	2 DIY)	2 weeks (2Question)	(2Simulate and 2Publish)	
	CS2 Put programming	with others online e.g.				Assessment for
	commands into a		DL1 Discuss different	IT9 Talk about the	IT6 Evaluate their work	Learning based
	commands into a	email, instant	ways to communicate	different ways they use	and improve its	intervention.
		messaging, Skype				

sequence to achieve a		with others online e.g.	technology to collect	effectiveness	
specific outcome	DL6 Begin to	email, instant	information, including a	Say what kind of	
specific outcome	acknowledge that other	The state of the s	camera, microscope or		
CC2 Use remost	•	messaging, Skype	sound recorder and do	information they could	
CS3 Use repeat	people have created	OS2 Tells about		use to help them	
commands to improve	the information they	OS2 Talk about	this independently	investigate a question	
an algorithm	use on the internet	different situations	IT10 Talk about the		
	OCE Tally about	where they may be		IT4 Acknowledge how	
	OS5 Talk about	asked for personal	different ways in which	to combine a mixture	
	websites/ apps/films/	information	information can be	of text, graphics and	
	games that they use	173 F I	shown	sound to share their	
	that are age	IT2 Explore new media		ideas and learning	
	appropriate	to extend what they			
		can achieve			
	2. Acknowledge that				
	anything they share				
	online can be seen by				
	others				
	3. Give real life				
	examples for each of				
	the schools online				
	safety rules e.g. SMART				
	<mark>rules</mark>				
	Spreadsheets - 3 weeks				
	(2Calculate)				
	IT9 Talk about the				
	different ways they use				
	technology to collect				
	information, including a				
	camera, microscope or				

		sound recorder and do this independently IT10 Talk about the different ways in which information can be shown				
Key Vocabulary	Action, Algorithm, Bug, Code block, Code design, Command, Control, Debug/debugging, Design mode, Event, If, Input, Output, Object, Properties, Repeat, Computer simulation, Selection, Timer, Variable	Password, Internet, Blog, Concept map, Username, Website, Webpage, Spoof website, PEGI rating S=, Advance mode, Copy and Paste, Columns, Cells, Delete key, Equals tool, Move cell tool, Rows, Spin tool, Spreadsheet	Posture, Top row keys, Home row keys, Bottom row keys, Space bar Communication, Email, Compose, Send, Report to the teacher, Attachment, Address book, Save to draft, Password, CC, Formatting	Communication, Email, Compose, Send, Report to the teacher, Attachment, Address book, Save to draft, Password, CC, Formatting Branching database, Data, Database, Question	Branching database, Data, Database, Question Simulation	Graph, Field, Data, Bar chart, Block graph, Line graph
			Year 4			
Knowledge	Coding - 6 weeks (2Code) Understand and use variables in 2Code.	Online Safety - 4 weeks Assess how children can protect themselves from online identity theft. Understand that	Spreadsheets (cont) - 4 weeks (2Calculate) (see previous column) Writing for Different Audiences - 2 weeks (2Email, 2Connect, 2	Writing for Different Audiences (cont) - 3 weeks (2Email, 2Connect, 2 DIY) (see previous column) Logo - 3 weeks	Animation - 3weeks (2Animate) To discuss what makes a good animated film or cartoon. To learn how animations	Hardware Investigators - 2 weeks. To understand the different parts that make up a computer. CS6 Acknowledge
	Effectively use computational thinking terms decomposition and abstraction.	information put online leaves a digital footprint or trail and that this can aid identity theft. Identify the risks and benefits of installing software including apps.	DIY) To explore how font size and style can affect the impact of a text. DL1 Discuss different ways to communicate	(reduced by 1) (2Logo) To learn the structure of the coding language of Logo.	are created by hand. To find out how 2Animate can be created in a similar way using the computer.	whether the resource they are using is on the Internet, the school network or a different device

	with others online e.g.	To learn about onion	Assessment for
Understand that copying	email, instant	skinning in animation.	Learning based
the work of others and	messaging, Skype and		intervention.
presenting it as their own	select the appropriate	IT2 Explore new media	
is called 'plagiarism' and	tool for purpose	to extend what they	
to consider the	tooner purpose	can achieve	
consequences of			
plagiarism.			
		Effective Search - 3	
Spreadsheets - 2 weeks		weeks (Browser)	
(2Calculate)		To assess whether an	
		information source is	
		true and reliable.	
IT9 Talk about the			
different ways they use		IT6 Evaluate their work	
technology to collect		and improve its	
information, including a		effectiveness	
camera, microscope or		Say what kind of	
sound recorder and do		information they could	
this independently		use to help them	
IT10 Talk about the		·	
different ways in which		investigate a question	
information can be		OCO T III I	
shown		OS2 Talk about	
Shown		different situations	
		where they may be	
		asked for personal	
		information	
		DL6 Begin to	
		acknowledge that other	
		people have created	
		the information they	
		use on the internet	
		ase on the internet	

Skills	Coding - 6 weeks (2Code) CS1 Confidently predict what will happen for a more complex sequence of instructions CS2 Put programming commands into a sequence to achieve a specific outcome and evaluate its success CS3 Use repeat commands to improve an algorithm Change an input to a program to achieve a different output	Online Safety - 4 weeks OS2 Talk about different situations where they may be asked for personal information OS4 Make good decisions about the time they spend online and their choice of online activity OS5 Talk about websites/ apps/films/ games that they use that are age appropriate OS6 1. Explain the consequences of not communicating kindly and respectfully online 2.Acknowledge that anything they share online can be seen by others 3.Give real life examples for each of the schools online	Spreadsheets (cont) - 4 weeks (2Calculate) (see previous column) Writing for Different Audiences - 2 weeks (2Email, 2Connect, 2 DIY) IT3 and IT4 Combine a mixture of text, graphics and sound to share their ideas and learning	Writing for Different Audiences (cont) - 3 weeks (2Email, 2Connect, 2 DIY) (see previous column) Logo - 3 weeks (reduced by 1) (2Logo) CS2 Put programming commands into a sequence to achieve a specific outcome and evaluate its success CS3 Use repeat commands to improve an algorithm	Animation - 3weeks (2Animate) IT3 and IT4 Understand how to combine a mixture of text, graphics and sound to share their ideas and learning	Assessment for Learning based intervention.
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		safety rules e.g. SMART rules DL2 Begin to acknowledge that other people have created the information they use on the internet DL4 Discuss benefits and disadvantages of technology Spreadsheets - 2 weeks (2Calculate) Use a spreadsheet to model a real-life situation.				
Key Vocabulary	Action, Alert, Algorithm, Bug, Code design, Command, Control, Debug/debugging, Design mode, Event, Get input, If, If/Else, Input, Output, Object, Repeat, Selection, Simulation. Timer, Variable	Computer virus, Cookies, Copyright, Digital footprint, Email, Identity theft, Malware, Phishing, Plagiarism, Spam Average, Advance mode, Copy and Paste, Columns, Cells, Charts, Equal tool, Formula, Formula wizard, Move cell tool, Random tool, Rows, Spin tool, Spreadsheet, Timer	Average, Advance mode, Copy and Paste, Columns, Cells, Charts, Equal tool, Formula, Formula wizard, Move cell tool, Random tool, Rows, Spin tool, Spreadsheet, Timer Font, Bold, Italic, Underline	Font, Bold, Italic, Underline Logo, BK, FD, RT, LT, Repeat, SETPC, SETPS, PU, PD	Animation, Flipbook, Frame, Onion skinning, Background, Play, Sound, Stop motion, Video clip Easter egg, Internet, Internet browser, Search, Search engine, Spoof website, Website	Motherboard, CPU, RAM, Graphics card, Network card, Monitor, Speakers, Keyboard and Mouse

			Year 5			
Knowledge	Coding - 6 weeks (2Code) To represent a program design and algorithm. To explore string and text variable types so that the most appropriate can be used in programs.	Online Safety - 3 weeks To gain a greater understanding of the impact that sharing digital content can have. To review sources 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,	Spreadsheets (cont) - 3 weeks (2Calculate) (see previous column) Databases - 3 weeks (reduced by 1 week). (2Question, 2 Investigate) To learn how to search for information in a database.	Game Creator - 5 weeks (2DIY 3D) To know how to create, share and evaluate a game.	3D modelling - 4 weeks (2Design and Make) To be introduced to 2Design and Make and the skills of computer aided design. To understand designing for a purpose. To understand printing and making. 2 Concept Maps - 2 weeks (2Connect) To understand the need for visual representation	2 Concept Maps (cont) - 2 weeks (2Connect) (see previous column) Assessment for Learning based intervention.
		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 understand and use the correct vocabulary when creating a concept map. To understand how a concept map can be used to retell stories and present information.	

		Spreadsheets - 3 weeks (2Calculate) IT6 Review and improve their own work and support others to improve their work IT8 Plan, create and search a database to answer questions				
Skills	Coding - 6 weeks (2Code) CS1 Deconstruct a problem into smaller steps, recognising similarities to solutions used before CS2 Use a variable and operators to stop a program CS3 Recognise when they need to use a variable to achieve a required output. use a sensor to detect a change which can select an action within their program	Online Safety - 3 weeks OS1 Talk about what makes a secure password and why it is important. OS2 Explore the dangers of sharing too much about themselves online OS3 Explain why they need to protect themselves and the best ways to do this, including reporting concerns to an adult	Spreadsheets (cont) - 3 weeks (2Calculate) (see previous column) Databases - 3 weeks (reduced by 1 week). (2Question, 2 Investigate) IT8 Plan, create and search a database to answer questions To contribute to a class database.	Game Creator - 5 weeks (2DIY 3D) IT2 Use the skills they have already developed to create content using unfamiliar technology IT4 Select, use and combine the appropriate technology tools to create effects that will have an impact on others IT6 Review and improve their own work and support others to improve their work	3D modelling - 4 weeks (2Design and Make) IT2 Use the skills they have already developed to create content using unfamiliar technology IT3 Use photos, video and sound to create an atmosphere when presenting to different audiences IT4 Select, use and combine the appropriate technology tools to create effects that will have an impact on others	2 Concept Maps (cont) - 2 weeks (2Connect) (see previous column) Assessment for Learning based intervention.

	OS6 Acknowledge that		2 Concept Maps - 2	
CS5 Continually test	anything they do		weeks (2Connect)	
and refine a program	online is then public		IT3 Use photos, video	
	and will remain on the		and sound to create an	
	internet for a long time		atmosphere when	
			presenting to different	
	DL2 Find out who the		audiences	
	information on a			
	webpage belongs to		IT4 Select, use and	
	where available		combine the	
	Where available		appropriate	
	DL6 Find out who the		technology tools to	
	information on a		create effects that will	
			have an impact on	
	webpage belongs to		others	
	where available		others	
	E			
	DL1 Understand how			
	to use different online			
	communications,			
	including e-mail			
	Spreadsheets - 3 weeks			
	(2Calculate)			
	IT9 Use a spreadsheet			
	to record collected data			
	IT2 Use the skills they			
	have already developed			
	to create content using			
	unfamiliar technology			

Key Vocabulary	Action, Alert, Algorithm,	Using the formula wizard to add a formula to a cell to automatically make a calculation in that cell. Using 2Calculate tools to test a hypothesis. Using a spreadsheet to model a real-life situation and answer questions.	Average, Advance mode,	Animation, Computer game,	CAD - Computer aided	Audience, Collaboratively,
	Bug, Code design, Command, Control, Debug/debugging, Design mode, Event, Get input, If, If/Else, Input, Output, Object, Repeat, Sequence, Selection, Simulation, Timer, Variable	Password, Reputable, Encryption, Identity theft, Shared image, Plagiarism, Citations, Reference, Bibliography Average, Advance mode, Copy and Paste, Columns, Cells, Charts, Equals tool, Formula, Formula wizard, Move cell tool, Random tool, Rows, Spin tool, Spreadsheet, Timer	Copy and Paste, Columns, Cells, Charts, Equals tool, Formula, Formula wizard, Move cell tool, Random tool, Rows, Spin tool, Spreadsheet, Timer Avatar, Binary tree, Charts, Collaborative, Data, Database, Find, Record, Sort, Group, Arrange, Statistics, Reports, Table	Customise, Evaluation, Image, Instructions, Interactive, Screenshot, Texture, Perspective, Playability	design, Modelling, 3D, Viewpoint, Polygon, 2D, Net, 3D printing, Points, Template Audience, Collaboratively, Concept, Concept Map, Connection, Idea, Node, Thought, Visual	Concept, Concept Map, Connection, Idea, Node, Thought, Visual

Year 6								
Knowledge	Coding - 6 weeks (2Code)	Online Safety - 3 weeks To have a clear idea of appropriate online behaviour. To begin to understand how information online can persist. To understand the importance of balancing game and screen time with other parts of their lives.	Spreadsheets (cont) - 2 weeks (2Calculate) (see previous column) Networks - 3 weeks To learn about what the Internet consists of. To find out what a LAN and a WAN are. To think about what the future might hold. CS8 Understand how computer networks can provide multiple services such as the World Wide Web DL3(Y5) Understand how technology has develop ped	Text Adventures - 5 weeks (2Code, 2 Connect) To find out what a text adventure is to be able to create one.	Blogging - 5 weeks (2Blog) To identify the purpose of writing a blog and its key features. 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.	Quizzing - 6 weeks (2Quiz, 2 DIY, Text toolkit, 2Investigate) To learn how to use the question types within 2Quiz. To explore the grammar quizzes.		
Skills	Coding - 6 weeks (2Code) To use the program design process, including flowcharts, to develop algorithms for more complex programs using and understanding of abstraction and	Online Safety - 3 weeks OS2 Explain in detail the consequences of sharing personal information online OS3 Talk about how to preserve evidence if they see something	Spreadsheets (cont) - 2 weeks (2Calculate) (see previous column) Networks - 3 weeks	Text Adventures - 5 weeks (2Code, 2 Connect) IT1 Use an appropriate tool to share their work and collaborate online IT2 Use the skills they have already developed	Blogging - 5 weeks (2Blog) IT3 Use photos, video and sound to create an atmosphere when presenting to different audiences	Quizzing - 6 weeks (2Quiz, 2 DIY, Text toolkit, 2Investigate) IT1 Use an appropriate tool to share their work and collaborate online IT2 Use the skills they have already developed		

decomposition to define the important aspects of the program.

CS1 Decompose a problem into smaller parts to design an algorithm for a specific outcome

CS4 Use logical reasoning to detect and correct errors in a more complex algorithm and program.

CS5 Evaluate the effectiveness and efficiency of an algorithm while continually testing the programming of that algorithm

inappropriate/upsetting online e.g. turn off screen but not computer, take screenshots, save messages

OS4 Explain the long term consequences of spending too much time online or on a game

OS5 Revise the importance of age appropriate websites/apps/films/games and the consequences of not choosing these

OS6 Explain what a digital footprint is and how to have a positive digital footprint

Spreadsheets - 3 weeks (2Calculate)
IT9 Select and use confidently the most effective tool to collect data for an investigation

to create content using unfamiliar technology

IT3 Use photos, video and sound to create an atmosphere when presenting to different audiences

IT4 Select, use and combine the appropriate technology tools to create effects that will have an impact on others

IT6 Review and improve their own work and support others to improve their work

CS1 Deconstruct a problem into smaller steps, recognising similarities to solutions used before

CS2 Use logical thinking, imagination and creativity to create and extend a program

IT5 Use basic Keyboard Skills (including touch typing) on a keyboard (Ctrl + B, U, I, S, P)

IT6 Review and improve their own work and support others to improve their work

DL1 1.Use different online communications

2.Confidently use an email system to communicate safely online.

to create content using unfamiliar technology

IT3 Use photos, video and sound to create an atmosphere when presenting to different audiences

IT4 Select, use and combine the appropriate technology tools to create effects that will have an impact on others

IT8 Plan, create and search a database to answer questions

CS7 Recognise and evaluate different types of information they find on the World Wide Web.

	Coloot the most				
	Select the most				
	appropriate way to		CS3 Recognise when		
	record their data		they need to use a		
			variable to achieve a		
	IT10 Choose the best		required output.		
	way to present data		use a sensor to detect a		
			change which can		
	IT11 Use the skills they		select an action within		
	have developed to		their program		
	interrogate a database		then program		
	Check the data they		CS4 Use logical		
	collect for accuracy and		reasoning to detect and		
	plausibility		debug mistakes in a		
	processine,				
	To use a spreadsheet to		program		
	investigate the		CCE Continuelly to at		
	probability of the results		CS5 Continually test		
	of throwing many dice.		and refine a program		
	Using the formula wizard				
	to add a formula to a cell				
	to automatically make a				
	calculation in that cell.				
	Using a spreadsheet to				
	create computational				
	models and answer				
	questions.				
W. Wash Is				. 1: 21	
Key Vocabulary Action, Alert,	, Algorithm, Digital Footprint, Password, sign, Command, PEGI rating, Phishing,	Average, Advance mode, Copy and Paste, Columns,	Text-based adventure, Concept map, Debug, Sprite,	Audience, Blog, Blog page, Blog post, Collaborative,	Audience, Collaboration, Concept map, Database,
Control, Debu		Cells, Charts, Count (how	Function	Icon	Quiz
Event, Function		many) tool, Dice, Equals tool,			
If, If/Else, I	· · · · · · · · · · · · · · · · · · ·	Formula, Formula wizard,			

Object, Repeat, Sequence,	Average, Advance mode,	Move cell tool, Random tool,		
Selection, Simulation, Tabs,	Copy and Paste, Columns,	Rows, Spin tool,		
Timer, Variable	Cells, Charts, Count (how	Spreadsheet, Timer		
	many) tool, Dice, Equals tool,			
	Formula, Formula wizard,	Internet, World Wide Web,		
	Move cell tool, Random tool,	Network, Local area		
	Rows, Spin tool,	network (LAN), Wide area		
	Spreadsheet, Timer	network (WAN), Router,		
		Network cables, Wireless		