

Theme 1	Curriculum Flight Path Year A				
	EYFS	Year 1/2	Year 3/4	Year 5/6	
Theme	Exploring Mini Mash and Purple Mash using a variety of technology in the classroom (interactive whiteboard, laptop, ipad).		Coding Program: 2Code Breakdown: Purple Mash units 3.1 and 4.1 - Accomplishing a goal in a program – Year 3 Lesson 1 - Accomplishing a goal in a program – Year 4 Lesson 1 - Simulating a physical system – Year 3 Lesson 2 - Making a control simulation – Year 4 Lesson 6 - Debugging – Year 3 Lesson 5 - Debugging – Year 4 Lesson 4	Coding Program: 2Code Breakdown: Purple Mash units 5.1 and 6.1 - Accomplishing a goal in a program – Year 5 Lesson 1 - Simulating a physical system – Year 5 Lesson 2 - Creating a game with a score and timer – Year 5 Lessons 4 and 5 - Using buttons to showcase work – Year 6 Lesson 5 - Internet safety – Year 5 Lesson 6	
Questions	Where can you go into Mini Mash?	What is a password and why should you keep them safe? What is a digital avatar? Where can you store work on Purple Mash?	What does selection mean in coding? How can you achieve this in your code? Can you give an example of how to use a variable in coding? Can you explain the stages of the design, code, test, debug coding process? What do the terms decomposition and abstraction mean?	What does simulating a physical system mean? Can you describe how you would use variables to make a timer countdown and scorepad for a game? Can you give examples of how you could use the launch command?	
Vocabulary (progressive – so what are the new words?)	Technology Click	Log in Username Password	Alert Event Get Input	Sequence	

		Avatar	Output	
		My work	Computer Simulation	
		Log out	Selection	
		Save	Simulation	
		Notification	Timer Variable	
		Topics	Variable	
		Tools		
Theme 2		Curriculum Fli	ght Path Year A	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme)	Explore a computer and a	Effective searching	Online Safety	Online Safety
•	mouse. Use the mouse to move	Programs: Browser	Programs: various	Programs - various
	things around on the screen	Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit
	and use the keyboard to	2.5 Effective Searching	3.2 Online Safety	5.2 Online Safety
	become familiar with using the		,	,
	keys.			
	Programs: Mini Mash and			
	Purple Mash			
Questions	How do you use a mouse	How can you search the	What is a password and why	Who should you tell if you see
•	around the screen?	internet?	should we keep them safe?	anything online that makes me
	What is a keyboard used for?		Is everything you read on the	upset or scared?
	,		Internet true?	Why are passwords so
			How do you know if you are old	important?
			enough to play a computer	Why is it important to
			game?	reference sources in your
			game.	work?
Vocabulary (progressive – so	Mouse	Internet	Password	Smart rules
what are the new words?)	Keyboard	Search	Blog	Reputable
mat are the new moras.	ne, sear a	Search engine	Concept map	Encryption
		Scaren engine	Username	Shared image
			Website	Citations
			Webpage	Reference
			Spoof website	Bibliography
			PEGI rating	
			. 2017441118	
Theme 3		Curriculum Flia	ght Path Year A	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme	Explore why teachers use	Lego builders	Spreadsheets	<u>Spreadsheets</u>
	computers to help them to do	Program: 2DIY	Program: 2Calculate	Program: 2Calculate
	1			

	their job. Technology hunt around school. Why do we need it?	Breakdown: Purple Mash Unit 1.4 Lego Builders	Breakdown: Purple Mash Unit 3.3 Spreadsheets	Breakdown: Purple Mash Unit 5.3
Questions	What is technology? What does technology need to work? Why do you need a computer in the school office? What do we use at home every day?	What is an instruction? Why do we need to debug a code?	Explain how you would collect data to find out children's favourite school subjects. What sort of graph would you create? How can you make a 3 times table machine using the spin tool? Could you use the equals tool to check your answer? How would you locate a cell in the advanced mode?	How would you add a formula so that the cell shows the product of two other cells? What would you use to have a cell that automatically calculates the number of days since a certain date? Can you explain what a spreadsheet model of a real-life situation is and what it can be used for?
Vocabulary (progressive – so what are the new words?)	Technology	Instruction Algorithm Computer Program Debug	<>= Advance mode Copy and Paste Columns Cells Delete key Equals tool Move cell tool Rows Spin Tool Spreadsheet	No new vocabulary
Theme 4		Curriculum Fli	ght Path Year A	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme	Explore technology at home.	Technology Outside School Programs: Various Breakdown: Purple Mash Unit 1.9 Technology Outside School	Email Programs: 2Email, 2Connect, 2DIY Breakdown: Purple Mash Unit 3.5 Email	<u>Databases</u> Programs: 2Question, 2Investigate Breakdown: Purple Mash Unit 5.4 Databases
Question (based on specific components of knowledge and	Why do we need technology? What do we use technology for? What technology do you see on the way to school?	What is technology?	What is email? What should you do if you receive an email that makes you upset or scared? What information can you send in an email?	What is a database? Why is the collaborative feature important? In what ways can you sort information in a database?

Vocabulary (progressive – so	Technology		Communication	Avatar
what are the new words?)			Email	Binary tree
·			Compose	Charts
			Send	Collaborative
			Report to the teacher	Find
			Attachment	Record
			Address book	Sort, Group and Arrange
			Save to draft	Statistics and reports
			Password	Table
			CC	
			Formatting	
Theme 5		Curriculum Fl	ight Path Year A	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g		Grouping and sorting	Branching Databases	Creating a Game
Tudors)		Program: 2DIY	Program: 2Question	Programs: 2DIY, 3D
		Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit
		1.2 Grouping and Sorting	3.6 Branching Databases	5.5 Game Creator
Question (based on specific		In what way can you sort	What is meant by data?	What makes a good computer
components of knowledge and		objects?	What is a database?	game?
			What is a branching database?	Why is it important to
				continually evaluate your
				game?
Vocabulary (progressive – so		Sort	Branching database	Animation
what are the new words?)		Criteria	Data	Computer game
			Database	Customise
			Question	Evaluation
				Image
				Instruction
				Interactive
				Screenshot
				Texture
				Perspective
				Playability
Theme 6			ight Path Year A	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g		<u>Creating pictures</u>	<u>Simulations</u>	Modelling
Tudors)		Programs: 2PaintAPicture	Programs: 2Simulate, 2Publish	Programs: 2Design and Make

		Breakdown: Purple Mash Unit 2.6 Creating Pictures	Breakdown: Purple Mash Unit 3.7 Simulations	Breakdown: Purple MashUnit 5.6 3D Modelling
Question (based on specific components of knowledge and		What are the main features of impressionism? What are the main features of pointillism? What are the main features of surrealism?	What is a computer simulation? What kind of simulations are there? Are there any problems with simulations? What are these?	What are the different views of an object are available in the modelling software? How can the objects designed in the modelling software be turned into 3D objects? How is CAD software used in industry?
Vocabulary (progressive – so what are the new words?)		Impressionism Palette Pointillism Share Surrealism Template	Simulation	CAD Modelling 3D Viewpoint Polygon - 2D Net Points Template
Theme 7			ght Path Year A	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g Tudors)		Spreadsheets Program: 2Calculate Breakdown: Purple Mash Unit 1.8 Spreadsheets	Graphing Program: 2Graph Breakdown: Purple Mash Unit 3.8 Graphing	Concept Maps Program: 2Connect Breakdown: Purple Mash Unit 5.7 Concept Maps
Question (based on specific components of knowledge and		What does a spreadsheet look like? How could you use a spreadsheet to add up values? How could you use the count	What is a graph? What are the frame lines on the graph called? What different kinds of graphs are there?	What is a concept map? How is information arranged on a concept map? How does a concept map help share ideas?
		and speak tools?	are there.	Share racas.

		Doloto kov	Though
		Delete key	Though
		Image toolbox	Visual
		Lock tool	
		Move cell tool	
		Rows	
		Speak tool	
		Spreadsheet	
Theme 8		Curriculum Flight Path Yea	r A
	EYFS	Year 1/2	
Theme (overarching e.g		Coding	
Tudors)		Program: 2Code	
,		Breakdown: Purple Mash Unit	
		1.7	
Question (based on specific		What is coding?	
components of knowledge and		How can you make characters	
		move in a 2Code program?	
		Why is it useful to design	
		before coding?	
Vocabulary (progressive – so		Action	
what are the new words?)		Background	
what are the new words:		Button	
		Character	
		Code block	
		Code design Coder	
		Coding	
		Collision detection	
		Command	
		Design mode	
		Input	
		Object	
		Program	
		Properties	
		Scale	
		Stop command	
		Sound	
		When clicked	
		When key	

Theme 9	Curriculum Flight Path Year A		
	EYFS	Year 1/2	
Theme (overarching e.g		Coding	
Tudors)		Program: 2Code	
		Breakdown: Purple Mash Unit	
		2.1	
Question (based on specific		What is an algorithm? Why is it	
components of knowledge and		useful in coding?	
		Explain what the repeat	
		command and the timer	
		command do?	
		If you are good at coding, you	
		don't need to debug. Is this	
		true?	
Vocabulary (progressive – so		Action	
what are the new words?)		Algorithm	
		Bug	
		Character	
		Code block	
		Code design	
		Command	
		Debug/debugging	
		Design mode	
		Input	
		Object	
		Properties	
		Repeat	
		Scale Timer	
		When clicked	
		When key	

Theme 1	Curriculum Flight Path Year B			
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g Tudors)	Talk to the children about how technology gets used by people every day for all the different things that they do. Link this to the topic you are doing and look at the different ways that technology could be used. Programs: Mini Mash and Purple Mash	Online Safety & Exploring Purple Mash Program: Various Breakdown: Purple Mash Unit 1.1 Online Safety & Exploring Purple Mash.	Coding Program: 2Code Breakdown: -Introducing 'If' statements — Year 3 Lesson 4 -Variables and 'if/else' statements — Year 4 Lesson 2 - Repetition using a timer and repeat commands — Year 3 Lesson 3 -Repetition and user input — Year 4 Lesson 3 -Variables — Year 3 Lesson 6 -	Coding Program: 2Code Breakdown: - Designing and writing a more complex program – Year 6 Lessons 1 and 2 - Introducing text variables – Year 5 Lesson 3 -Introducing Functions – Year 6 Lesson 3 -Text Adventure – Year 6 Lesson 6 -Vocabulary review and
Question (based on specific components of knowledge and	What job do you think ues technology?	What is a password and why should you keep them safe? What is a digital avatar? Where can you store work on Purple Mash?	Variables – Year 4 Lesson 5 What does selection mean in coding? How can you achieve this in your code? Can you give an example of how to use a variable in coding? Can you explain the stages of the design, code, test, debug coding process? How can variables and if/else statements be useful when coding programs with selection? What do the terms decomposition and abstraction mean?	quizzes – Year 6 Lesson 4 What is the effect of using tabs in your code? What is a function in coding? How can a program receive user input?
Vocabulary (progressive – so what are the new words?)	Technology	Log in Username Password Avatar My work Log out Save	Alert Event Get Input If If/Else Output Computer Simulation	Sequence Tabs

Notification Topics Simulation Topics Tools Theme 2 Curriculum Flight Path Year B EYFS Year 1/2 Year 3/4 Year 5/6 Theme (overarching e.g Tudors) Use the topics in Simple City resources to talk to the children about how technology is used by people in different ways. Programs: Mini Mash and Purple Mash Notification Topics Simulation Timer Variable Year 8 Year 3/4 Year 5/6 Online Safety Program: Various Breakdown: Purple Mash Unit 1.5 Maze Explorers 4.2 Online safety 6.2 Online safety
Theme 2 Curriculum Flight Path Year B EYFS Year 1/2 Year 3/4 Year 5/6 Theme (overarching e.g Tudors) Use the topics in Simple City resources to talk to the children about how technology is used by people in different ways. Programs: Mini Mash and Purple Tools Timer Variable Variable Year 8 Year 3/4 Year 5/6 Maze explorers Program: 2Go Breakdown: Purple Mash Unit 4.2 Online Safety Program: Various Breakdown: Purple Mash Unit 4.2 Online safety 6.2 Online safety
Theme 2 Curriculum Flight Path Year B EYFS Year 1/2 Theme (overarching e.g Tudors) Use the topics in Simple City resources to talk to the children about how technology is used by people in different ways. Programs: Mini Mash and Purple Variable Curriculum Flight Path Year B Year 3/4 Year 5/6 Online Safety Program: Various Breakdown: Purple Mash Unit 1.5 Maze Explorers Variable Year 3/4 Year 5/6 Online Safety Program: Various Breakdown: Purple Mash Unit 4.2 Online safety 6.2 Online safety
Theme 2 EYFS Year 1/2 Year 3/4 Year 5/6 Theme (overarching e.g Tudors) Use the topics in Simple City resources to talk to the children about how technology is used by people in different ways. Programs: Mini Mash and Purple Curriculum Flight Path Year B Year 3/4 Year 5/6 Online Safety Program: Various Breakdown: Purple Mash Unit 1.5 Maze Explorers Programs: Various Breakdown: Purple Mash Unit 4.2 Online safety 6.2 Online safety
Theme (overarching e.g Tudors) Theme (overarching e.g Tudors) Use the topics in Simple City resources to talk to the children about how technology is used by people in different ways. Programs: Mini Mash and Purple Year 3/4 Maze explorers Program: 2Go Breakdown: Purple Mash Unit 1.5 Maze Explorers Year 3/4 Program: Various Breakdown: Purple Mash Unit 4.2 Online safety 6.2 Online safety
Theme (overarching e.g Tudors) Use the topics in Simple City resources to talk to the children about how technology is used by people in different ways. Programs: Mini Mash and Purple Waze explorers Program: 2Go Breakdown: Purple Mash Unit 1.5 Maze Explorers Program: Various Breakdown: Purple Mash Unit 4.2 Online safety 6.2 Online Safety Program: Various Breakdown: Purple Mash Unit 4.2 Online safety
Tudors) resources to talk to the children about how technology is used by people in different ways. Program: 2Go Breakdown: Purple Mash Unit 1.5 Maze Explorers Program: Various Breakdown: Purple Mash Unit 4.2 Online safety 6.2 Online safety
about how technology is used by people in different ways. Programs: Mini Mash and Purple Breakdown: Purple Mash Unit 1.5 Maze Explorers Programs: Mini Mash and Purple Breakdown: Purple Mash Unit 4.2 Online safety 6.2 Online safety
people in different ways. Programs: Mini Mash and Purple 1.5 Maze Explorers 4.2 Online safety 6.2 Online safety
people in different ways. Programs: Mini Mash and Purple 1.5 Maze Explorers 4.2 Online safety 6.2 Online safety
Programs: Mini Mash and Purple
Question (based on What is 2Go? What is meant by a digital Why do you need to be awar
specific components of How do you undo a mistake on footprint? of the dangers of being
knowledge and 2Go? What is SPAM? online?
What is meant by plagiarism? What is meant by your digita
footprint?
Why is it important to think
about how much time you us
a screen for?
Vocabulary (progressive – Direction Computer virus Screen time
so what are the new Challenge Cookies
words?) Arrow Copyright
Undo
Rewind Phishing
Forward Plagiarism
Backwards Spam
Right turn
Left turn
Debug
Instruction
Algorithm
Theme 3 Curriculum Flight Path Year B
EYFS Year 1/2 Year 3/4 Year 5/6
Theme (overarching e.g Explore different jobs. Questioning Spreadsheets Spreadsheets
Tudors) Programs: Mini Mash and Purple Programs: 2Question, Program: 2Calculate Program: 2Calculate
Mash Investigate Breakdown: Purple Mash Unit Breakdown: Purple Mash Unit
4.3 Spreadsheets 6.3 Spreadsheets

		Breakdown: Purple Mash Unit		
		2.4 Questioning		
Question (based on specific components of knowledge and	How do you think a farmer might use technology to look after animals on his farm? How do you think a builder/doctor/shopkeeper uses technology?	How does a pictogram show information? How is information organised in a binary tree? How can a database help organise information?	How would you add a formula so that the cell shows the percentage score for a test? Which tools would you use to create a timed times tables test? Can you give an example of the data that could be best represented by a line graph? Can you explain what a spreadsheet model of a real-life situation is and what it can be used for?	How would you add a formula so that the cell shows the total of a column of cells? What is a computational model and what it can be used for? If you were going to use a spreadsheet to plan your dream holiday, what data would you collect to cost the trip?
Vocabulary (progressive –		Pictogram	Average	Count (how many) tool
so what are the new		Question	Charts	Dice
words?)		Data	Formula	
		Collate	Formula Wizard	
		Binary tree	Random tool	
		Avatar	Timer	
		Database		
Theme 4		Curriculum Fligh	nt Path Year B	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g		Online safety	Writing for Different Audiences	Blogging
Tudors)		Program: Various	Programs: 2Email, 2Connect,	Program: 2Blog
		Breakdown: Purple Mash Unit	2DIY	Breakdown: Purple Mash Unit
			Breakdown: Purple Mash Unit	6.4 Blogging
			4.4 Writing for different	
			audiences	
Question (based on		What is a password and why	Why should you change the font	What is a blog?
specific components of		should you keep them safe?	when I am writing?	What can a blog be about?
knowledge and		What is a digital avatar?		How are the audience
		Where can you store work on		involved in a blog?
		Purple Mash?		
Vocabulary (progressive –		Log in	Fon	Audience
so what are the new		Username	Bold	Blog
words?)		Password	Italic	Blog page
		Avatar	Underline	Blog post

		My work		Collaborative
		Log out		Icon
		Save		
		Notification		
		Topics		
		Tools		
Theme 5		Curriculum Fligh	t Path Year B	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g		Animated Story Books	Coding	Coding
Tudors)		Program: 2Create a Story	Program: Logo	Programs: 2Code, 2Connect
		Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit
		1.6 Animated Story Books	4.5 Logo	6.5 Text Adventures
Question (based on		What is a 2Create story?	What is Logo?	What is a text based
specific components of		What is an animated story?		adventure?
knowledge and		How can you make a story		Why is it important to plan a
		better?		text based adventure?
Vocabulary (progressive –		Animation	LOGO	Text-based adventure
so what are the new		E-Book	ВК	Concept map
words?)		Font	FD	Sprite
		File	RT	Function
		Sound effect	LT	
		Display board	REPEAT	
			SETPC	
			SETPS	
			PU	
			PD	
Theme 6		Curriculum Fligh	t Path Year B	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g		Making Music	<u>Animation</u>	<u>Networks</u>
Tudors)		Program: 2Sequence	Program: 2Animate	Breakdown: Purple Mash Unit
		Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit	6.6 Networks
		2.7 Making Music	4.6 Animation	
Question (based on		What is meant by digital	What is an animation?	What is the difference
specific components of		music?	What is meant by onion	between the Internet and the
knowledge and		How can you change the way	skinning?	World Wide Web?
		music sounds?	9	What is the difference
			animation?	between a LAN and a WAN?
		the music?		Who is Tim Berners-Lee?
Theme (overarching e.g Tudors) Question (based on specific components of	EYFS	Year 1/2 Making Music Program: 2Sequence Breakdown: Purple Mash Unit 2.7 Making Music What is meant by digital music? How can you change the way music sounds? What is meant by the tempo of	Year 3/4 Animation Program: 2Animate Breakdown: Purple Mash Unit 4.6 Animation What is an animation? What is meant by onion skinning? What is meant by stop frame	Networks Breakdown: Purple Mash Unit 6.6 Networks What is the difference between the Internet and the World Wide Web? What is the difference between a LAN and a WAN?

Vocabulary (progressive –		BPM	Animation	World Wide Web
so what are the new		Composition	Flipbook	Network
words?)		Digitally	Frame	Local area network (LAN)
,		Instrument	Onion skinning	Wide area network (WAN)
		Music	Background	Router
		Sound effects (SFX)	Play	Network cable
		Soundtrack	Sound	Wireless
		Tempo	Stop motion	
		Volume	Video clip	
Theme 7		Curriculum Fligh	t Path Year B	
	EYFS	Year 1/2	Year 3/4	Year 5/6
Theme (overarching e.g		<u>Spreadsheets</u>	Search Engines	Create a Quiz
Tudors)		Program: 2Calculate	Program: Browser	Programs: 2Quiz, 2DIY, Text
		Breakdown: Purple Mash Unit	Breakdown: Purple Mash Unit	Toolkit, 2Investigate
		2.3 Spreadsheets	4.7 Effective Search	Breakdown: Purple Mash Unit
				6.7 Quizzing
Question (based on		Why would you copy and paste	What is a search engine?	What factors do you need to
specific components of		when using a spreadsheet?	How do you know if something	consider when creating a
knowledge and		How could a spread help when	on the internet is true?	quiz?
		planning some shopping?		Can you name three question
		Look at the graph made in		types used in the program?
		2Calculate showing the class'		Apart from the questions,
		favourite pets. Which is the		what else does a quiz need to
		most popular?		contain?
Vocabulary (progressive –		Backspace key	Easter egg	Audience
so what are the new		Copy and paste	Internet	Collaboration
words?)		Columns	Internet browser	Concept map
		Cells	Search	Quiz
		Count tool	Search engine	
		Image toolbox	Spoof website	
		Lock tool	Website	
		Move cell tool		
		Rows		
		Speak took		
		Spreadsheet		
Theme 8		Curriculum Fligh		
	EYFS	Year 1/2	Year 3/4	Year 5/6

Theme (overarching e.g		Pictograms	Understanding Hardware		
Tudors)		Program: 2Count	Breakdown: Purple Mash Unit		
,		Breakdown: Purple Mash Unit	4.8 Hardware Investigators		
		1.3 Pictograms			
Question (based on		What is a pictogram?	What is the difference between		
specific components of			hardware and software?		
knowledge and					
Vocabulary (progressive –		Data	Motherboard		
so what are the new		Pictogram	CPU		
words?)		Collate	RAM		
			Graphics card		
			Network card		
			Monitor		
			Speakers		
			Keyboard and mouse		
Theme 9		Curriculum Flight Path Year B			
	EYFS	Year 1/2	Year 3/4	Year 5/6	
Theme (overarching e.g		Presenting ideas			
Tudors)		Programs: Various			
		Breakdown: Purple Mash Unit			
		2.8 Presenting Ideas			
Question (based on		What do you need to think			
specific components of		about when planning a			
knowledge and		presentation?			
		Why should you plan out a			
		presentation?			
Vocabulary (progressive –		Concept map (mind map)			
so what are the new		Node			
words?)		Animated			
•		Quiz			
		Non-Fiction			
		Presentation			
		Narrative			
		Audience			