

Guide	<p>This is a guide to how the Purple Mash scheme of work maps to our Beckford Topic Curriculum and links to subjects such as English, maths, art, DT etc.</p> <ul style="list-style-type: none"> • Units of work vary in length and there is flexibility to move them if required, as long as they are all covered during the year. • This shows how the NC requirements are covered if the units are followed, ensuring coverage and progression as children move through the school • There are fewer planned weeks than weeks in the year and time is set aside in Summer 2 for catch up and consolidation work. • The scheme of work has catch up units called “crash courses” while we embed the scheme, to allow children to access the units if they haven’t used the software in previous years. These are also very useful for teachers who need to develop their own knowledge and skills. • The idea is that this scheme should help less confident teachers learn alongside their class and support them, a bit like Charanga does for music. • Full lesson plans, plus knowledge organisers, links, software, video clips, examples etc are provided, however teachers will need to prepare carefully and set 2do tasks, watch videos, review resources etc before teaching each lesson. There is probably too much there and we will need to be selective. You can’t just log in and go. • One hour a week is timetabled for computing lessons. These cover the NC requirements and sometimes link to other curriculum areas. However, using computers in other lessons as well is, of course, encouraged. • Purple Mash has software built in which can be used throughout the curriculum and for home learning. It’s worth taking time to explore it. There are lots of teacher guides to help you. • I have put in an E-safety session at the beginning of each half term, except when the unit for that half term is an E-safety unit. This could be part of a circle time or use some of the many resources available online. I will put together a list of suggestions and age ranges.
--------------	--

Reception	<p style="text-align: center;">Comm and Lang</p> <ul style="list-style-type: none"> • 2Paint a picture tools and create • 2Create a story • Mashcams • 2Beat • 2Explore • 2Design and make 	<p style="text-align: center;">Expressive Arts</p> <ul style="list-style-type: none"> • 2Paint a picture • 2Paint a projects • 2Create a story • Mashcams • 2Beat • 2Explore • 2Design and make 	<p style="text-align: center;">Literacy</p> <ul style="list-style-type: none"> • Mashcams • 2Create a story • Alphabet slideshows • 2Email/2Respond • Talking Stories • 2Connect • 2Publish 	<p style="text-align: center;">Maths</p> <ul style="list-style-type: none"> • Maths City 1 • A-fish-metic • Number paint projects • 2Count • 2Quiz 	<p style="text-align: center;">PSED</p> <ul style="list-style-type: none"> • 2Beat • 2Explore • Mashcams <p style="text-align: center; background-color: #4682B4; color: white;">Physical Development</p> <ul style="list-style-type: none"> • Mini Mash PIN Grocers 	<p style="text-align: center;">Und the World</p> <ul style="list-style-type: none"> • PINS All about Me
------------------	---	---	---	--	--	---

Beckford/ Purple Mash Computing Curriculum 2020-21

	Autumn		Spring		Summer	
	Earth and Space	We are Builders	Heroes	Our secret sky Garden	Carnival of animals	Travellers
	<ul style="list-style-type: none"> E-safety lesson Unit 1.1 Online Safety and exploring Purple Mash (4 weeks) Unit 1.2 Grouping and Sorting (2 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 1.3 Pictograms (3 lessons) Unit 1.4 Lego Builders (3 lessons) 	<ul style="list-style-type: none"> E-safety lesson Unit 1.5 Maze Explorers (3 weeks) Unit 1.6 Animated Storybooks (3 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 1.7 Coding (6 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 1.8 Spreadsheets (3 weeks) Unit 1.9 Technology outside school (2 weeks) 	Catch up/ revisit/ free choice Bold = can be linked closely to class topic
Year 1	NC Statement			Themes/Curricular Links		
	I can recognise how others use technology at home and at school.		1.3, 1.5, 1.8, 1.9	Maths – sorting shapes according to specific criteria - making pictograms		1.2, 1.3
	I can use technology to create.		1.3, 1.4, 1.5, 1.8	Art and Design		1.6
	I know how to get help if I need it when I am online.		1.1	E-safety		1.1
	I can predict the behaviour of a simple program.		1.4, 1.5, 1.7, 1.8	Coding and Computational thinking		1.2, 1.4, 1.5, 1.7
	I can create a simple program to complete a task.		1.3, 1.4, 1.7, 1.8	Tools Spreadsheets		1.8
Ye	Kenya /Growing Up/going to school	Toys and Lego	The fire of London		By the Sea	

Beckford/ Purple Mash Computing Curriculum 2020-21

<ul style="list-style-type: none"> Unit 2.1 Coding (5 weeks) Unit 2.2 Esafety (3 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 2.3 Spreadsheets(4 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 2.4 Questioning (3 weeks) Unit 2.5 Effective Searching (3 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 2.6 Creating Pictures (5 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 2.7 Making Music (3 weeks) Unit 2.8 Presenting Ideas (4 weeks) 	Catch up/ revisit/ free choice Bold = can be linked to class topic
NC Statement			Themes/ Curricular Links		
I can recognise how others use technology outside of school	2.1, 2.3, 2.5, 2.8	Maths – Magic Squares and general use of spreadsheets for calculating Pictograms and binary trees	2.3		
I can find, open, edit and save files I am working on.	2.3, 2.8	Topic – Fire of London Leaflet	2.4 2.5		
I can use different software programs and discuss the benefits of their usage	All	Art and Design Using techniques from different art periods to test the tools in art software (Could use the last lesson for topic related piece – Fire of London	2.6		
I know how to keep my personal information private	2.2	Coding and Computational thinking	2.1		
I can predict the behaviour of a programmed toy, clearly relating each action to part of an algorithm.	2.1,	E-safety	2.2, 2.5		
I can create a simple program to perform a task	2.1, 2.5	Music	2.7		
I can create and debug simple programs.	2.1,	Tools Spreadsheets Emails Presentation software	2.3 2.1 2.8		

Beckford/ Purple Mash Computing Curriculum 2020-21

	I can find and fix bugs in programs.	2.1			
	I can understand that programs run by following clear instructions	2.1			
Year 3	Field to fork	Victorian Schools	Stone age / Changing Planet	Britain from the air	
	<ul style="list-style-type: none"> E-safety lesson Unit 3.1 Coding (6 weeks) 	<ul style="list-style-type: none"> Unit 3.2 Online Safety (3 weeks) Unit 3.3 Spreadsheets (3 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 3.4 Typing (4 weeks) Unit 3.5 Email (6 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 3.6 Branching Databases (4 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 3.7 Simulations (3 weeks) Unit 3.8 Graphing (2 weeks)
	NC Statements			Themes /Curricular Links	
	I know what input and output devices are and how they are used.	3.1	Maths – Using a spreadsheet to create bar graphs and charts and to carry out calculations Completing and creating a branching database Graphing	3.3 3.6 3.8	
	I can use a range of input and output devices efficiently	3.1	E-safety	3.2, 3.5	
	I can make choices on which program is best for a given task.	3.5	Coding and Computational thinking	3.1, 3.7	
	I know I need to keep my password and personal information secure.	3.2, 3.5	Tools Spreadsheets Databases Blog Typing Email	3.3 3.6 3.2 3.4 3.5	
	I can recognise acceptable and unacceptable behaviour online.	3.2, 3.5			
	I can produce a simple program that completes a given task.	3.1			
	I can explain how simple algorithms solve given problems	3.1, 3.6			

Beckford/ Purple Mash Computing Curriculum 2020-21

	I understand that computer networks allow data to be transferred and shared.	3.2, 3.5		
	I understand that the internet is a large network that enables computers to share information.	3.2, 3.5		
	Egyptians	Romans	Steam	Europe
	<ul style="list-style-type: none"> E-safety lesson Unit 4.1 Coding (6 weeks) 	<ul style="list-style-type: none"> Unit 4.2 Online Safety (4 weeks) Unit 4.3 Spreadsheets (5 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 4.4 Writing for different audiences (5 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 4.6 Animation (3 weeks) Unit 4.8 Hardware Investigators (2 weeks)
			<ul style="list-style-type: none"> E-safety lesson Unit 4.7 Effective Searching (3 weeks) 	Catch up/ revisit/ free choice Bold = can be linked to class topic
	NC Statements		Themes /Curricular Links	
Year 4	I can use more complicated input devices.		Maths- Use spreadsheets to make graphs and model mathematical ideas	4.3
	I can use different software programs and different types of hardware.	All	English – Newspaper Report	4.4
	I can use a range of programs to complete a task.	4.4, 4.6	Art and Design - Animation	4.6
	I understand that what I say or post on the internet might be copied, shared and stored by others.	4.2	E-safety	4.2
	I know what to do if I see anything worrying online	4.2	Coding and computational thinking	4.1
	I can break programs up into smaller parts.	4.1	Tools Spreadsheets Word Processors Search Engines	4.3 4.4
	I can use logical thinking to identify and solve potential bugs during coding.	4.1		
	I can use other programs as I code.	4.1		

Beckford/ Purple Mash Computing Curriculum 2020-21

	I understand that some computers on a network serve particular functions, such as controlling printers or sharing files.	4.8			
	I understand how search engines order search results.	4.7			
	Shackleton	Ancient Greece	Space	Invaders	
	<ul style="list-style-type: none"> E-safety lesson Unit 5.1 Coding (6 weeks) 	<ul style="list-style-type: none"> Unit 5.2 Online Safety (3 weeks) Unit 5.3 Spreadsheets (5 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 5.4 Databases (4 weeks) Unit 5.5 game Creator (5 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 5.6 3D Modelling (4 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 5.7 Concept Maps (4 weeks) <p>Catch up/ revisit/ free choice</p> <p>Bold = can be linked to class topic</p>
	NC Statements		Themes /Curricular Links		
	I can I can select appropriate software to use for a given task	5.4	Maths – Use spreadsheets to carry out tasks such as count, find perimeters of rectangles etc	5.3	
	I can I can confidently use a range of software tools	all	English – Mind map and write an informative text	5.7	
	I understand how to choose online content for my age group	5.2	Art and Design – design a 3D game	5.5	
	I can write increasingly complex programs.	5.1			
	I can control external hardware from within my programs	To be added	E-Safety	5.2	
	I can use loops to repeat tasks within a program	5.1	Coding and Computational thinking	5.1, 5.5, 5.7	
	I can use IF statements to alter the way my programs run.	5.1	Tools Spreadsheets Databases – make and populate a class database CAD – design a building	5.3 5.4 5.6	
	I can explain how increasingly complex algorithms solve a given problem.	5.1			
	I can use a range of search tools to find exactly what I'm looking for	5.2			
	I can use the internet to allow me to share data with another person	5.2			
Y	Silk Road	Battle of Britain	Disasters	Evolution and adaption	

Beckford/ Purple Mash Computing Curriculum 2020-21

<ul style="list-style-type: none"> E-safety lesson Unit 6.1 Coding (6 weeks) 	<ul style="list-style-type: none"> Unit 6.2 Online Safety (3 weeks) Unit 6.3 Spreadsheets (5 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 6.4 Blogging (5 weeks) Unit 6.5 Text Adventures (4 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 6.6 Networks (3 weeks) Unit 6.7 Quizzing (6 weeks) 	<ul style="list-style-type: none"> E-safety lesson Unit 6.8 Binary (4 weeks) 	Catch up/ revisit/ free choice Bold = can be linked to class topic
Learning			Techniques		
I can use more than one piece of software to complete a task	6.7	Maths- Use spreadsheets to answer probability questions, work out sale prices, binary	6.3, 6.8		
I can design a program for a given audience	6.1, 6.4, 6.7	English – Blogging, Text adventures, grammar quiz	6.4, 6.5, 6.7		
I can use software to help me analyse and present data and information	6.3				
I understand how to protect my computer or device from harm on the internet	6.2	E-safety	6.2		
I understand how to report concerns about content and contact in and out of school	6.2	Coding and computational thinking	6.1		
I can combine software and hardware to solve real life problems	6.3	Tools Spreadsheets Blog Game Design	6.3 6.4		
I can break code up into related instructions, making debugging easier and quicker	6.1				
I can store and retrieve variables in a program	6.1				
I can use loops, variables and IF statements to alter my programs run	6.1				
I can use logical thinking to identify and solve potential bugs during coding	6.1				
I understand how computers are able to communicate and share information	6.2, 6.4, 6.6				

Beckford/ Purple Mash Computing Curriculum 2020-21

	I can use and combine services on the internet to share information	6.4, 6.6		
--	---	----------	--	--