



Computing

Scheme of Work

Overview



Introduction

This document contains an overview of the units included in the Purple Mash Computing Scheme of Work for all year groups.

Individual year group overview documents detail the unit lessons for that year group and contain relevant curriculum maps for England, Wales, Scotland and Northern Ireland.

Year group pages also contain assessment documents for these units.



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Units by Year Group - Single Age Classes

Theme Key:

 Coding and Computational thinking	 Spreadsheets	 Internet and Email	 Art and Design	 Music	 Databases and graphing	 Writing and Presenting	 Communication and networks
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Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
YEAR 1	Unit 1.1 Online Safety & Exploring Purple Mash				Unit 1.2 Grouping & Sorting		Unit 1.3 Pictograms		Unit 1.4 Lego Builders			Unit 1.5 Maze Explorers			Unit 1.6 Animated Story Books			Unit 1.7 Coding			Unit 1.8 Spreadsheets		Unit 1.9 Technology outside school								
	Weeks – 4				Weeks – 2		Weeks – 3		Weeks – 3			Weeks – 3			Weeks – 5			Weeks – 6			Weeks – 3		Weeks – 2								
	Programs – Various				Programs – 2DIY		Programs – 2Count		Programs – 2DIY			Programs – 2Go			Programs – 2Create A Story			Programs – 2Code			Programs – 2Calculate		Programs – Various								

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 2	Unit 2.1 Coding					Unit 2.2 Online Safety			Unit 2.3 Spreadsheets				Unit 2.4 Questioning				Unit 2.5 Effective Searching		Unit 2.6 Creating Pictures			Unit 2.7 Making Music		Unit 2.8 Presenting Ideas								
	Weeks – 5					Weeks – 3			Weeks – 4				Weeks – 5				Weeks – 3		Weeks – 5			Weeks – 3		Weeks – 4								
	Programs – 2Code					Programs – Various			Programs – 2Calculate				Programs – 2Question, 2Investigate				Programs – Browser		Programs – 2PaintAPicture			Programs – 2Sequence		Programs – Various								

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
YEAR 3	Unit 3.1 Coding						Unit 3.2 Online safety			Unit 3.3 Spreadsheets			Unit 3.4 Touch Typing				Unit 3.5 Email (including email safety)					Unit 3.6 Branching Databases			Unit 3.7 Simulations		Unit 3.8 Graphing						
	Number of Weeks – 6 Main Programs – 2Code						Weeks – 3 Programs – Various			Weeks – 3 Programs – 2Calculate			Weeks – 4 Programs – 2Type				Weeks – 6 Programs – 2Email, 2Connect, 2DIY					Weeks – 4 Programs – 2Question			Weeks –3 Programs – 2Simulate, 2Publish		Weeks –3 Programs – 2Graph						
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
YEAR 4	Unit 4.1 Coding						Unit 4.2 Online safety				Unit 4.3 Spreadsheets					Unit 4.4 Writing for different audiences				Unit 4.5 Logo		Unit 4.6 Animation		Unit 4.7 Effective Search		Unit 4.8 Hardware Investigators							
	Number of Weeks – 6 Main Programs – 2Code						Weeks – 4 Programs – Various				Weeks – 6 Programs – 2Calculate					Weeks – 5 Programs – 2Email, 2Connect, 2DIY				Weeks – 4 Programs – Logo		Weeks – 3 Programs – 2Animate		Weeks – 3 Programs – Browser		Weeks – 2							
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
YEAR 5	Unit 5.1 Coding						Unit 5.2 Online safety			Unit 5.3 Spreadsheets					Unit 5.4 Databases		Unit 5.5 Game Creator			Unit 5.6 3D Modelling			Unit 5.7 Concept Maps										
	Number of Weeks – 6 Main Programs – 2Code						Weeks – 3 Programs - Various			Weeks – 6 Programs – 2Calculate					Weeks – 4 Programs – 2Question, 2Investigate		Weeks – 5 Programs – 2DIY 3D			Weeks – 4 Programs – 2Design and Make			Weeks – 4 Programs – 2Connect										

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 6*	Unit 6.1 Coding						Unit 6.2 Online safety			Unit 6.3 Spreadsheets					Unit 6.4 Blogging				Unit 6.5 Text Adventures				Unit 6.6 Networks			Unit 6.7 Quizzing						
	Number of Weeks – 6						Weeks – 2			Weeks – 5					Weeks – 5				Weeks – 5				Weeks – 3			Weeks – 6						
	Main Programs – 2Code						Programs - Various			Programs – 2Calculate					Programs – 2Blog				Programs – 2Code, 2Connect							Programs – 2Quiz, 2DIY, Text Toolkit, 2Investigate						

* There is an optional unit 6.8 - Understanding Binary that can be used in addition to the above units. It is a four week unit.

Tools by Unit

Year	Unit	Title	Tools used
Y1	1.1	Online Safety and Exploring Purple Mash	Avatar creator
			Paint Projects
			Writing Templates
			2Count (Pictograms)
			2Explore (Music)
	1.2	Grouping & Sorting	2Quiz
	1.3	Pictograms	2Connect (Mind Map)
			2Count (Pictograms)
	1.4	Lego Builders	Paint Projects
			Writing Templates
2Quiz			
1.5	Maze Explorers	2Go (coding)	
1.6	Animated Stories	2Create a Story	
1.7	Coding	2Code	
1.8	Spreadsheets	2Calculate	
1.9	Technology Outside School	Writing Templates	

Year	Unit	Title	Tools used
Y2	2.1	Coding	2Code
	2.2	Online Safety	Writing Templates
			Displayboards
			2Respond (2Email)
	2.3	Spreadsheets	2Calculate
	2.4	Questioning	2Question (Binary Databases)
			2Calculate (spreadsheet)
			2Investigate (database)
	2.5	Effective Searching	2Quiz
			Writing Templates
	2.6	Creating Pictures	2Paint a Picture
			Writing Templates
	2.7	Making Music	2Sequence (Music)
2.8	Presenting Ideas	2Connect (Mind Map)	
		2Create a Story (ebook)	
		2Quiz	
		Writing Templates	

Year	Unit	Title	Tools used
Y3	3.1	Coding	2Code
	3.2	Online Safety	2Connect (Mind Map)
			2Blog (Blogging)
			Writing Templates
			Displayboards
	3.3	Spreadsheets	2Calculate
	3.4	Typing	2Type
	3.5	Email	2Email
	3.6	Branching Databases	2Question (Binary Databases)
	3.7	Simulations	2Simulate
			Writing Templates
	3.8	Graphing	2Graph
Writing Templates			
2Blog (Blogging)			

Year	Unit	Title	Tools used
Y4	4.1	Coding	2Code
	4.2	Online Safety	2Connect (Mind Map)
			2Publish Plus
			Displayboards
	4.3	Spreadsheets	2Calculate
	4.4	Writing for Different Audiences	Writing Templates
			2Simulate
			2Connect (Mind Map)
			2Publish Plus
	4.5	Logo	2Logo (text-based coding)
	4.6	Animation	2Animate
	4.7	Effective Searching	2Quiz
2Connect (Mind Map)			
4.8	Hardware Investigators	2Quiz	
		2Connect (Mind Map)	
		Writing Templates	

Year	Unit	Title	Tools used
Y5	5.1	Coding	2Code
	5.2	Online Safety	2Publish Plus
			Writing Templates
			Displayboards
			2Connect (Mind Map)
	5.3	Spreadsheets	2Calculate
	5.4	Databases	2Investigate (database)
			Avatar creator
	5.5	Game Creator	2DIY 3D
			Writing Templates
2Blog (Blogging)			
5.6	3D Modelling	2Design and Make	
		Writing Templates	
5.7	Concept Maps	2Connect (Mind Map)	

Year	Unit	Title	Tools used
Y6	6.1	Coding	2Code
	6.2	Online Safety	2DIY 3D
			2DIY
			2Code
			2Blog (Blogging)
	6.3	Spreadsheets	2Calculate
	6.4	Blogging	2Blog (Blogging)
	6.5	Text Adventures	2Code
			2Connect (Mind Map)
			Writing Templates
	6.6	Networks	2Connect (Mind Map)
			Writing Templates
	6.7	Quizzing	2DIY
2Quiz			
Text Toolkit			
2Investigate (database)			
6.8 (optional)	Understanding Binary	2Connect (Mind Map)	
		2Question (Binary Databases)	
		Writing Templates	
		2Code	