



COMPUTING

LONG TERM PLANNING

Predominant Area of Computing*			
	Computer Science	 Information Technology	 Digital Literacy

*Most units will include aspects of all strands.

Early Years (Reception)

Rather than a scheme with set lessons, the early years resources are designed to integrate into the day-to-day routine and set-up of an early years setting with opportunities for using Mini Mash or Purple Mash as part of the Early Years curriculum to support children in working towards early learning goals.

In addition, there are units of suggested ideas that focus on computing skills specifically, that can also be provided as opportunities for learning as part of the topics in other areas to give children a sound basis to explore topics using technology and to be ready for progressing through the Computing curriculum. These are as follows and are designed to be integrated and linked to wider early years curriculum areas. These have been loosely classified into the three streams but there is overlap between all three streams.

Mouse and Trackpad Skills	Keyboard Skills	Drawing skills	Robots	Sounds	Photography
Technology Around Us	Hardware	Safety and Privacy	Quizzes	Using Purple Mash with an Individual Login	

Units by Year Group – Single Age Classes

Predominant Area of Computing*



Computer
Science



Information
Technology



Digital
Literacy

Year 1

*Most units will include aspects of all strands.

It is recommended that you teach unit 1.1 first as it introduces Purple Mash.

<p>Unit 1.1 Online Safety & Exploring Purple Mash</p> <p>Number of lessons – 4</p> <p>Programs – Various</p>	<p>Unit 1.2 Grouping & Sorting</p> <p>Number of lessons – 2</p> <p>Programs – 2DIY</p>	<p>Unit 1.3 Pictograms</p> <p>Number of lessons – 3</p> <p>Programs – 2Count</p>
<p>Unit 1.4 Lego Builders</p> <p>Number of lessons – 3</p> <p>Programs – 2DIY</p>	<p>Unit 1.5 Maze Explorers</p> <p>Number of lessons – 3</p> <p>Programs – 2Go</p>	<p>Unit 1.6 Animated Story Books</p> <p>Number of lessons – 5</p> <p>Programs – 2Create A Story</p>
<p>Unit 1.7 Coding</p> <p>Number of lessons – 6</p> <p>Programs – 2Code</p>	<p>Unit 1.8 Spreadsheets</p> <p>Number of lessons – 3</p> <p>Programs – 2Calculate</p>	<p>Unit 1.9 Technology outside school</p> <p>Number of lessons – 2</p> <p>Programs – Various</p>

Year 2

Predominant Area of Computing*					
	Computer Science		Information Technology		Digital Literacy

*Most units will include aspects of all strands.

Unit 2.1 Coding Number of lessons – 6 Programs – 2Code	Unit 2.2 Online Safety Number of lessons – 3 Programs – Various	Unit 2.3 Spreadsheets Number of lessons – 4 Programs – 2Calculate
Unit 2.4 Questioning Number of lessons – 5 Programs – 2Question, 2Investigate	Unit 2.5 Effective Searching Number of lessons – 3 Programs – Browser	Unit 2.6 Creating Pictures Number of lessons – 5 Programs – 2PaintAPicture
Unit 2.7 Making Music Number of lessons – 3 Programs – 2Sequence	Unit 2.8 Presenting Ideas Number of lessons – 4 Programs – Various	

Year 3

Predominant Area of Computing*		
	Computer Science	
		Digital Literacy

*Most units will include aspects of all strands.

<p>Unit 3.1 Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p>	<p>Unit 3.2 Online safety</p> <p>Number of lessons – 3</p> <p>Programs – Various</p>	<p>Unit 3.3 Spreadsheets</p> <p>Number of lessons – 3*</p> <p>Programs – 2Calculate</p>
<p>Unit 3.4 Touch Typing</p> <p>Number of lessons – 4</p> <p>Programs – 2Type</p>	<p>Unit 3.5 Email (including email safety)</p> <p>Number of lessons – 6</p> <p>Programs – 2Email, 2Connect, 2DIY</p>	<p>Unit 3.6 Branching Databases</p> <p>Number of lessons – 4</p> <p>Programs – 2Question</p>
<p>Unit 3.7 Simulations</p> <p>Number of lessons – 3</p> <p>Programs – 2Simulate, 2Publish</p>	<p>Unit 3.8 Graphing</p> <p>Number of lessons – 2</p> <p>Programs – 2Graph</p>	<p>Unit 3.9 Presenting (with Microsoft PowerPoint or Google Slides)</p> <p>Number of Lessons – 5 or 6 (version dependent) Main Program – MS PowerPoint or Google Slides</p>
<p>Unit 3.10 micro:bits</p> <p>Number of lessons – 4</p> <p>Main Programs – Free code micro:bit</p>		

*The Spreadsheets Crash-Course has 4 lessons

Year 4

Predominant Area of Computing*		
	Computer Science	
	Information Technology	Digital Literacy

*Most units will include aspects of all strands.

<p>Unit 4.1 Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p>	<p>Unit 4.2 Online safety</p> <p>Number of lessons – 4</p> <p>Programs – Various</p>	<p>Unit 4.3 Spreadsheets</p> <p>Number of lessons – 6</p> <p>Programs – 2Calculate</p>
<p>Unit 4.4 Writing for different audiences</p> <p>Number of lessons – 5</p> <p>Programs – 2Email, 2Connect, 2DIY</p>	<p>Unit 4.5 Logo</p> <p>Number of lessons – 4</p> <p>Programs – Logo</p>	<p>Unit 4.6 Animation</p> <p>Number of lessons – 3</p> <p>Programs – 2Animate</p>
<p>Unit 4.7 Effective Search</p> <p>Number of lessons – 3</p> <p>Programs – Browser</p>	<p>Unit 4.8 Hardware Investigators</p> <p>Number of lessons – 2</p>	<p>Unit 4.9 Making Music</p> <p>Number of Lessons – 4</p> <p>Main Program – Busy Beats</p>
<p>Unit 4.10 Artificial Intelligence</p> <p>Number of Lessons – 4</p>	<p>Unit 4.11 micro:bits</p> <p>Number of Lessons – 4</p>	

Year 5

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	Computer Science		Information Technology		Digital Literacy

*Most units will include aspects of all strands.

<p>Unit 5.1 Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p>	<p>Unit 5.2 Online safety</p> <p>Number of lessons – 3</p> <p>Programs - Various</p>	<p>Unit 5.3 Spreadsheets</p> <p>Number of lessons – 6</p> <p>Programs – 2Calculate</p>
<p>Unit 5.4 Databases</p> <p>Number of lessons – 4</p> <p>Programs – 2Question, 2Investigate</p>	<p>Unit 5.5 Game Creator</p> <p>Number of lessons – 5</p> <p>Programs – 2DIY 3D</p>	<p>Unit 5.6 3D Modelling</p> <p>Number of lessons – 4</p> <p>Programs – 2Design and Make</p>
<p>Unit 5.7 Concept Maps</p> <p>Number of lessons – 4</p> <p>Programs – 2Connect</p>	<p>Unit 5.8 Word processing (with Microsoft Word or Google Docs)</p> <p>Number of Lessons – 8</p> <p>Main program – MS Word or Google Docs</p>	<p>Unit 5.9 Using External Devices</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code Purple Chip</p>

Year 6

Predominant Area of Computing*		
	Computer Science	
	Information Technology	
	Digital Literacy	

*Most units will include aspects of all strands.

<p style="text-align: center;">Unit 6.1 Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p>	<p style="text-align: center;">Unit 6.2 Online safety</p> <p>Number of lessons – 2</p> <p>Programs - Various</p>	<p style="text-align: center;">Unit 6.3 Spreadsheets</p> <p>Number of lessons – 5</p> <p>Programs – 2Calculate</p>
<p style="text-align: center;">Unit 6.4 Blogging</p> <p>Number of lessons – 4</p> <p>Programs – 2Blog</p>	<p style="text-align: center;">Unit 6.5 Text Adventures</p> <p>Number of lessons – 5</p> <p>Programs – 2Code, 2Connect</p>	<p style="text-align: center;">Unit 6.6 Networks</p> <p>Number of lessons – 3</p>
<p style="text-align: center;">Unit 6.7 Quizzing</p> <p>Number of lessons – 6</p> <p>Programs – 2Quiz, 2DIY, Text Toolkit, 2Investigate, 2Survey</p>	<p style="text-align: center;">Unit 6.8 Understanding Binary</p> <p>Number of Lessons – 4</p> <p>Main Program – 2Code</p>	<p style="text-align: center;">Unit 6.9 Spreadsheets (with Microsoft Excel or Google Sheets)</p> <p>Number of Lessons – 8 Main program – MS Excel or Google Sheets</p>