

Units by Year Group – Single Age Classes

Predominant Area of Computing*		
	Computer Science	
	Information Technology	
	Digital Literacy	

*Most units will include aspects of all strands.

Year 1




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>

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Year 2

Predominant Area of Computing*		
	Computer Science	
		
		Digital Literacy

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

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Year 3

Predominant Area of Computing*		
	Computer Science	
	Information Technology	
	Digital Literacy	

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<p style="text-align: center;">Unit 3.1 Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p>	<p style="text-align: center;">Unit 3.2 Online safety</p> <p>Number of lessons – 3</p> <p>Programs – Various</p>	<p style="text-align: center;">Unit 3.3 Spreadsheets</p> <p>Number of lessons – 3*</p> <p>Programs – 2Calculate</p>
<p style="text-align: center;">Unit 3.4 Touch Typing</p> <p>Number of lessons – 4</p> <p>Programs – 2Type</p>	<p style="text-align: center;">Unit 3.5 Email (including email safety)</p> <p>Number of lessons – 6</p> <p>Programs – 2Email, 2Connect, 2DIY</p>	<p style="text-align: center;">Unit 3.6 Branching Databases</p> <p>Number of lessons – 4</p> <p>Programs – 2Question</p>
<p style="text-align: center;">Unit 3.7 Simulations</p> <p>Number of lessons – 3</p> <p>Programs – 2Simulate, 2Publish</p>	<p style="text-align: center;">Unit 3.8 Graphing</p> <p>Number of lessons – 3</p> <p>Programs – 2Graph</p>	<p style="text-align: center;">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>

*The Spreadsheets Crash-Course has 4 lessons

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Year 4

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	Information Technology	Digital Literacy

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<p style="text-align: center;">Unit 4.1 Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p>	<p style="text-align: center;">Unit 4.2 Online safety</p> <p>Number of lessons – 4</p> <p>Programs – Various</p>	<p style="text-align: center;">Unit 4.3 Spreadsheets</p> <p>Number of lessons – 6</p> <p>Programs – 2Calculate</p>
<p style="text-align: center;">Unit 4.4 Writing for different audiences</p> <p>Number of lessons – 5</p> <p>Programs – 2Email, 2Connect, 2DIY</p>	<p style="text-align: center;">Unit 4.5 Logo</p> <p>Number of lessons – 4</p> <p>Programs – Logo</p>	<p style="text-align: center;">Unit 4.6 Animation</p> <p>Number of lessons – 3</p> <p>Programs – 2Animate</p>
<p style="text-align: center;">Unit 4.7 Effective Search</p> <p>Number of lessons – 3</p> <p>Programs – Browser</p>	<p style="text-align: center;">Unit 4.8 Hardware Investigators</p> <p>Number of lessons – 2</p>	<p style="text-align: center;">Unit 4.9 Making Music</p> <p>Number of Lessons – 4</p> <p>Main Program – Busy Beats</p>

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Year 5

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	Digital Literacy	




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<p style="text-align: center;">Unit 5.1 Coding</p> <p>Number of lessons – 6</p> <p>Main Programs – 2Code</p>	<p style="text-align: center;">Unit 5.2 Online safety</p> <p>Number of lessons – 3</p> <p>Programs - Various</p>	<p style="text-align: center;">Unit 5.3 Spreadsheets</p> <p>Number of lessons – 6</p> <p>Programs – 2Calculate</p>
<p style="text-align: center;">Unit 5.4 Databases</p> <p>Number of lessons – 4</p> <p>Programs – 2Question, 2Investigate</p>	<p style="text-align: center;">Unit 5.5 Game Creator</p> <p>Number of lessons – 5</p> <p>Programs – 2DIY 3D</p>	<p style="text-align: center;">Unit 5.6 3D Modelling</p> <p>Number of lessons – 4</p> <p>Programs – 2Design and Make</p>
<p style="text-align: center;">Unit 5.7 Concept Maps</p> <p>Number of lessons – 4</p> <p>Programs – 2Connect</p>	<p style="text-align: center;">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>	

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Year 6

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

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Adapting the Scheme for Mixed Age Classes

Below is an exemplar for a 1\2, 3\4, 5\6 mix. Not all mixed age school will have the same mix, so plans will need adapting depending upon the mix and the journey of each individual pupil through the school: Ideally children in each age group will not repeat lessons in the next academic year and will not have gaps in knowledge to fill.

The logic that was used to create the exemplar can be applied to other mixes; this is the logic that was used to create the exemplar:

- Categorising the units into those that suited topics being covered in an order (spreadsheets and coding) and those that had more flexibility to differentiate and progress by outcome and expectation.
- From this, we created a two-year rolling program: In some schools this might be a 3- or 4-year rolling program. In schools with mixed ages, the same process will be being used for core subjects and we recommend using the same rolling program length.
- In the exemplar, the less specifically progressive units are completed by pupils in either year 1 or 2, year 3 or 4, year 5 or 6.
- In the exemplar, for KS1 (year 1/2) all the coding is in cycle A.
- For 3/4 and 5/6 coding, we looked at the themes of the individual lessons in the coding units and grouped them into two groups of related themes so all lessons about (for example) repetition in coding will be done in one year of the program and all lessons about variables would be done in another.
- Spreadsheets were hard to split in the same way as the coding so will require teachers to put the emphasis more firmly on the computing skills than the maths knowledge when younger pupils are tackling the unit for older pupils first in the two-year program.
- The rest of the units are more self-contained and can be achieved by differentiating expected outcomes for younger and older children.
- Unit 1.1 provides a good introduction to the use of Purple Mash and online safety, so we have included it in both cycles of the Y1\2 mix.

The lesson plans have a certain amount of repetition in them to recap and review learning from previous years. If they are completed out of sequence, for example teaching all the 'repetition' lessons in a block, some of this recapping will not be necessary, freeing up lesson time to explain new knowledge in more detail to the younger learners.

For an EYFS (Reception)\Y1 mix, you might decide that the curriculum for this class could focus initially on building familiarity with the hardware and tools using guidance from the Reception Scheme of Work with Mini Mash accessed through Purple Mash and then bringing in some units from the Y1 scheme of work that lend themselves well to early years:

- Grouping and Sorting - easily can be done hands on with classroom equipment.
- Lego Builders
- Maze explorers
- Pictograms
- Technology outside school

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You can also use the colour coding to pick and choose units that cover the three strands of computing content rather than aiming to complete every unit if this is going to be difficult to achieve.

We also have a stand-alone spreadsheet unit for Y6, this does not rely upon having completed the other spreadsheet units so might be another way to familiarise pupils with spreadsheets without including a spreadsheet unit in each year group. In this case, we would advise including the use of spreadsheets and other data programs within Maths, where there is a curricular link.

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Exemplar

Year 1\2 – Cycle A

Predominant Area of Computing*		
	Computer Science	
	Information Technology	
		Digital Literacy

*Most units will include aspects of all strands.

<p>Unit 1.1 Online Safety & Exploring Purple Mash</p> <p>Number of lessons – 4</p> <p>Programs – Various</p>	<p>Unit 2.5 Effective Searching</p> <p>Number of lessons – 3</p> <p>Programs – Browser</p>	<p>Unit 1.4 Lego Builders</p> <p>Number of lessons – 3</p> <p>Programs – 2DIY</p>
<p>Unit 1.9 Technology outside school</p> <p>Number of lessons – 2</p> <p>Programs – Various</p>	<p>Unit 1.2 Grouping & Sorting</p> <p>Number of lessons – 2</p> <p>Programs – 2DIY</p>	<p>Unit 2.6 Creating Pictures</p> <p>Number of lessons – 5</p> <p>Programs – 2PaintAPicture</p>
<p>Unit 1.8 Spreadsheets</p> <p>Number of lessons – 3</p> <p>Programs – 2Calculate</p>	<p>Unit 1.7 Coding</p> <p>Number of lessons – 6</p> <p>Programs – 2Code</p>	<p>Unit 2.1 Coding</p> <p>Number of lessons – 5</p> <p>Programs – 2Code</p>

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