**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.

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

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| **Cycle A** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 1/2** | **Unit 1.1 Online Safety & Exploring Purple Mash Number of lessons -4** | **Unit 1.8 Spreadsheets Number of lessons – 3** | **Unit 1.2 Grouping & Sorting Number of lessons – 2** | **Unit 1.7 Coding Number of lessons – 2** | **Unit 2.6 Creating Pictures Number of lessons – 5** | **Unit 2.1 Coding Number of lessons – 5** |
| **Unit 1.9 Technology outside school Number of lessons – 2** | **Unit 2.5 Effective Searching Number of lessons – 3** | **Unit 1.7 Coding Number of lessons –4** | **Unit 1.4 Lego Builders Number of lessons – 3** |
| **Year 3/4** | **Coding Number of lessons – 6** | **Unit 3.4 Touch Typing Number of lessons – 4** | **Unit 3.2 Online safety Number of lessons – 3** | **Unit 3.5 Email (including email safety) Number of lessons – 3** | **Unit 3.3 Spreadsheets Number of lessons – 3** | **Unit 3.6 Branching Databases Number of lessons – 4** |
| **Unit 3.7 Simulations Number of lessons – 3** | **Unit 3.5 Email (including email safety) Number of lessons – 3** | **Unit 3.8 Graphing Number of lessons – 2** |
| **Year 5/6** | **Coding Number of lessons – 6** | **Unit 5.4 Databases Number of lessons – 4** | **Unit 5.7 Concept Maps Number of lessons – 2** | **Unit 5.5 Game Creator Number of lessons – 5** | **Unit 5.3 Spreadsheets Number of lessons – 6** | **Unit 5.6 3D Modelling Number of lessons – 4** |
| **Unit 5.7 Concept Maps Number of lessons – 2** | **Unit 5.2 Online safety Number of lessons – 3** |

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| **Cycle B** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 1/2** | **Unit 1.1 Online Safety & Exploring Purple Mash Number of lessons – 4** | **Unit 2.3 Spreadsheets Number of lessons – 4** | **Unit 1.6 Animated Story Books Number of lessons – 5** | **Unit 1.3 Pictograms Number of lessons – 2** | **Unit 2.4 Questioning Number of lessons – 2** | **Unit 2.8 Presenting Ideas Number of lessons – 4** |
| **Unit 2.2 Online Safety Number of lessons – 3** | **Unit 1.5 Maze Explorers Number of lessons – 3** | **Unit 1.3 Pictograms Number of lessons – 1** | **Unit 2.4 Questioning Number of lessons – 3** | **Unit 2.7 Making Music Number of lessons – 3** |
| **Year 3/4** | **Coding Number of lessons – 6** | **Unit 4.4 Writing for different audiences Number of lessons – 5** | **Unit 4.7 Effective Search Number of lessons – 2** | **Unit 4.5 Logo Number of lessons – 4** | **Unit 4.3 Spreadsheets Number of lessons – 6** | **Unit 4.6 Animation Number of lessons – 3** |
| **Unit 4.7 Effective Search Number of lessons – 1** | **Unit 4.2 Online safety Number of lessons – 4** | **Unit 4.8 Hardware Investigators Number of lessons – 2** |
| **Year 5/6** | **Coding Number of lessons – 6** | **Unit 6.4 Blogging Number of lessons – 4** | **Unit 6.7 Quizzing Number of lessons – 4** | **Unit 6.5 Text Adventures Number of lessons – 5** | **Unit 6.3 Spreadsheets Number of lessons – 5** | **Unit 6.6 Networks Number of lessons – 3** |
| **Unit 6.7 Quizzing Number of lessons – 2** | **Unit 6.2 Online safety Number of lessons – 2** |

##### Coding Breakdown

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| **YEAR 3 & 4 - CYCLE A** | | | | | |
| **Using Flowcharts**  **Unit 3.1,**  **Lesson 1** | **Using Timers**  **Unit 3.1,**  **Lesson 2** | **‘if’ statements**  **Unit 4.1,**  **Lesson 2** | **Coordinates**  **Unit 4.1,**  **Lesson 3** | **Code, Test and Debug – Unit 3.1, Lesson 4** | **Design, Code, Test and Debug**  **Unit 4.1,**  **Lesson 1** |
| **YEAR 3 & 4 - CYCLE B** | | | | | |
| **Using Repeat**  **Unit 3.1,**  **Lesson 3** | **Repeat Until and ‘if/else’ Statements**  **Unit 4.1,**  **Lesson 4** | **Number Variables**  **Unit 4.1,**  **Lesson 5** | **Design and Make an Interactive scene**  **Unit 3.1, Lesson 5-6** | | **Making a Playable game**  **– Unit 4.1,**  **Lesson 6** |

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| **YEAR 5 & 6 - CYCLE A** | | | | | |
| **Coding Efficiently**  **Unit 5.1,**  **Lesson 1** | **Simulating a physical system**  **Unit 5.1,**  **Lesson 2** | **Friction and Functions**  **Unit 5.1,**  **Lesson 4** | **Introducing Strings**  **Unit 5.1,**  **Lesson 5** | **Text Variable and Concatenation**  **Unit 5.1,**  **Lesson 6** | **User Input**  **Unit 6.1,**  **Lesson 5** |
| **YEAR 5 & 6 - CYCLE B** | | | | | |
| **Designing and writing a more complex program**  **Unit 6.1, Lessons 1 & 2** | | **Decomposition and Abstraction**  **Unit 5.1,**  **Lesson 3** | **Using Functions**  **Unit 6.1,**  **Lesson 3** | **Flowcharts and control simulations**  **Unit 6.1,**  **Lesson 4** | **Text Adventure**  **Unit 6.1,**  **Lesson 6** |

##### Additional Units

The following units can be used in addition to or instead of any of the above KS2 units. They have not been included above due to the number of weeks in a school year and the number of weeks for each unit.

**Year 3/4**

**Unit 4.9 Making Music**

**Number of Lessons** – 4

**Unit 3.9 Presenting (with**

**Microsoft PowerPoint or Google Slides)**

**Number of Lessons** – 5/6

**Year 5/6**

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| **Unit 5.8 Word processing**  **(with Microsoft Word or Google Docs)**  **Number of Lessons – 8** | **Unit 6.9 Spreadsheets (with Microsoft Excel or Google Sheets)**  **Number of Lessons – 8** | **Unit 6.8 Understanding Binary**  **Number of Lessons –**  **4** |
|  | **Unit 5.9 Using External**  **Devices**  **Number of Lessons –**  **6** |  |