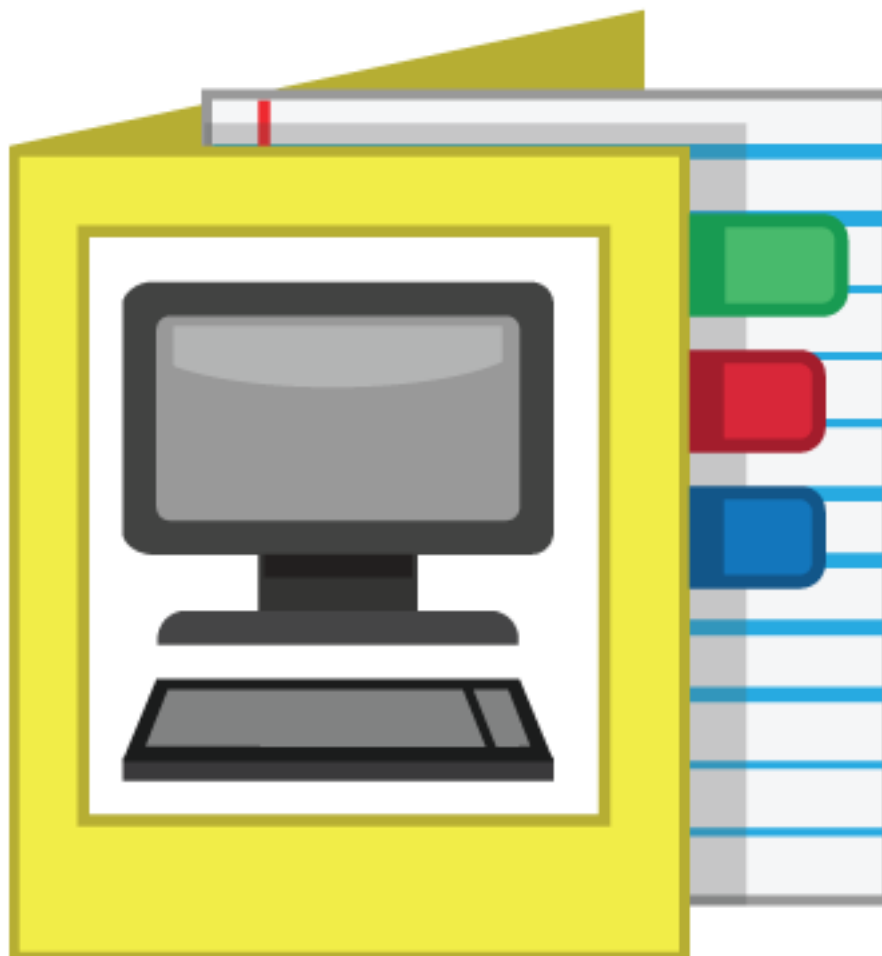




Computing

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.

These can be found by clicking the following links or from the Purple Mash Computing Scheme of Work page.

[Year 1](#)

[Year 2](#)

[Year 3](#)

[Year 4](#)

[Year 5](#)

[Year 6](#)

[Mixed Age Classes](#)

The Purple Mash tools used within each unit are detailed in the [Tools section](#) below.

To make the best use of the scheme, children need to be logged onto Purple Mash with their own individual usernames and passwords, so their work will be saved in their own folders automatically and can be easily reviewed and assessed by the class teacher. If children have not used and logged onto Purple Mash before then they will need to spend some time before starting these lessons, learning how to do this. Children can be supported by having their printed logon cards (produced using [Create and Manage Users](#)) to hand.









Lesson plans also make use of the facility within Purple Mash to set activities for pupils which they can then complete and hand-in online (2Dos). This enables you to assess their work easily as well as distribute resources to all pupils. If children have not opened 2Dos before then they will need more detailed instructions about how to do this. A teacher's guide to 2Dos can be found in the teacher's section: [2Dos Guide](#).

If you are currently using a single login per class or group and would like to set up individual logins yourself, then please see our guide to doing so at [Create and Manage Users](#). Alternatively, please contact support at support@2simple.com or 0208 203 1781.

To force links within this document to open in a new tab, right-click on the link then select 'Open link in new tab'.

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 |
|--|--|--|--|---|--|--|--|

| 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 Weeks – 4 Programs – Various | | | | Unit 1.2 Grouping & Sorting Weeks – 2 Programs – 2DIY | | Unit 1.3 Pictograms Weeks – 3 Programs – 2Count | | Unit 1.4 Lego Builders Weeks – 3 Programs – 2DIY | | Unit 1.5 Maze Explorers Weeks – 3 Programs – 2Go | | Unit 1.6 Animated Story Books Weeks – 5 Programs – 2Create A Story | | | | Unit 1.7 Coding Weeks – 6 Programs – 2Code | | | | Unit 1.8 Spreadsheets Weeks – 3 Programs – 2Calculate | | Unit 1.9 Technology outside school Weeks – 2 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 Weeks – 5 Programs – 2Code | | | | | Unit 2.2 Online Safety Weeks – 3 Programs – Various | | Unit 2.3 Spreadsheets Weeks – 4 Programs – 2Calculate | | | Unit 2.4 Questioning Weeks – 5 Programs – 2Question, 2Investigate | | | | Unit 2.5 Effective Searching Weeks – 3 Programs – Browser | | Unit 2.6 Creating Pictures Weeks – 5 Programs – 2PaintAPicture | | | Unit 2.7 Making Music Weeks – 3 Programs – 2Sequence | | Unit 2.8 Presenting Ideas Weeks – 4 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 | | | | | | Weeks – 3 | | | Weeks – 3 | | | Weeks – 4 | | | | Weeks – 6 | | | | | Weeks – 4 | | | Weeks – 3 | | Weeks – 3 | | | | | | |
| | Main Programs – 2Code | | | | | | Programs – Various | | | Programs – 2Calculate | | | Programs – 2Type | | | | Programs – 2Email, 2Connect, 2DIY | | | | | Programs – 2Question | | | Programs – 2Simulate, 2Publish | | 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 | | | | | | Weeks – 4 | | | | Weeks – 6 | | | | | | Weeks – 5 | | | | Weeks – 4 | | | Weeks – 3 | | | Weeks – 3 | | Weeks – 2 | | | | |
| | Main Programs – 2Code | | | | | | Programs – Various | | | | Programs – 2Calculate | | | | | | Programs – 2Email, 2Connect, 2DIY | | | | Programs – Logo | | | Programs – 2Animate | | | Programs – Browser | | | | | | |

Unit 3.9
Presenting (with
Microsoft PowerPoint
or Google Slides)

(Optional Unit)
Number of Lessons – 5
or 6 (version dependent)

Main Program – MS
PowerPoint or Google
Slides

Unit 4.9
Making Music

(Optional Unit)
Number of Lessons – 4

Main Program – Busy
Beats

| 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 | | | | | | Weeks – 3 | | | Weeks – 6 | | | | | | Weeks – 4 | | | Weeks – 5 | | | Weeks – 4 | | | Weeks – 4 | | | | | | | |
| | Main Programs – 2Code | | | | | | Programs - Various | | | Programs – 2Calculate | | | | | | Programs – 2Question, 2Investigate | | | Programs – 2DIY 3D | | | Programs – 2Design and Make | | | Programs – 2Connect | | | | | | | |

Unit 5.8
Word processing (with Microsoft Word or Google Docs)
 (Optional Unit)
Number of Lessons – 8
 Main program – MS Word or Google Docs

| 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 | | | | | | | | |

**Unit 6.8
Understanding Binary**

(Optional Unit)
Number of Lessons – 4

Main Program – 2Code






**Unit 6.9
Spreadsheets (with
Microsoft Excel or
Google Sheets)**

(Optional Unit)
Number of Lessons – 8

Main program – MS
Excel or Google Sheets

Units by Year Group – Mixed 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 |
|--|--|--|--|---|--|--|--|

In Year 1 and 2 coding, the lessons need to be taught in sequence as each lesson introduces skills that are consolidated and developed in the next lesson. Therefore, it is proposed to teach coding for 11 weeks in Cycle A and none in Cycle B. It is also beneficial for all children to recap unit 1.1 in both cycles as this introduces children new to the class with key skills needed to make the most of Purple Mash.

| 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 1 & 2 – CYCLE A | Unit 1.1 Online Safety & Exploring Purple Mash Weeks – 4 Programs – Various | | | | Unit 2.5 Effective Searching Weeks – 3 Programs – Browser | | | Unit 1.4 Lego Builders Weeks – 3 Programs – 2DIY | | | Unit 1.9 Technology outside school Weeks – 2 Programs – Various | | Unit 1.2 Grouping & Sorting Weeks – 2 Programs – 2DIY | | Unit 2.6 Creating Pictures Weeks – 5 Programs – 2PaintAPicture | | | | Unit 1.8 Spreadsheets Weeks – 3 Programs – 2Calculate | | Unit 1.7 Coding Weeks – 6 Programs – 2Code | | | | Unit 2.1 Coding Weeks – 5 Programs – 2Code | | | | | | | | |

| 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 | 34 |
|----------------------|--|---|---|---|---|---|---|--|---|----|----|----|--|----|---|----|----|----|---|----|--|----|--|----|---|----|----|----|----|----|----|----|----|----|
| YEAR 1 & 2 – CYCLE B | Unit 1.1 Online Safety & Exploring Purple Mash Weeks – 4 Programs – Various | | | | Unit 1.5 Maze Explorers Weeks – 3 Programs – 2Go | | | Unit 2.4 Questioning Weeks – 5 Programs – 2Question, 2Investigate | | | | | Unit 2.2 Online Safety Weeks – 3 Programs – Various | | Unit 1.6 Animated Story Books Weeks – 5 Programs – 2Create A Story | | | | Unit 2.7 Making Music Weeks – 3 Programs – 2Sequence | | Unit 2.3 Spreadsheets Weeks – 4 Programs – 2Calculate | | Unit 1.3 Pictograms Weeks – 3 Programs – 2Count | | Unit 2.8 Presenting Ideas Weeks – 4 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 & 4 CYCLE A | 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 | | | | | | Weeks – 3 | | | Weeks – 3 | | | Weeks – 4 | | | | Weeks – 6 | | | | | Weeks – 4 | | | Weeks – 3 | | Weeks – 3 | | | | | | |
| | Main Programs – 2Code | | | | | | Programs – Various | | | Programs – 2Calculate | | | Programs – 2Type | | | | Programs – 2Email, 2Connect, 2DIY | | | | | Programs – 2Question | | | Programs – 2Simulate, 2Publish | | Programs – 2Graph | | | | | | |
| | See table below for breakdown | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 3 & 4 CYCLE B | 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 | | | | | | Weeks – 4 | | | Weeks – 6 | | | | | | Weeks – 5 | | | | Weeks – 4 | | Weeks – 3 | | Weeks – 3 | | Weeks – 2 | | | | | | | |
| | Main Programs – 2Code | | | | | | Programs – Various | | | Programs – 2Calculate | | | | | | Programs – 2Email, 2Connect, 2DIY | | | | Programs – Logo | | Programs – 2Animate | | Programs – Browser | | | | | | | | | |
| | See table below for breakdown | | | | | | | | | | | | | | | | | | | | | | | Programs – Browser | | | | | | | | | |

* There is an optional unit 4.9 – Making Music that can be used in addition to the above units. It is a four week unit.

Coding Breakdown

| | | | | | | |
|-----------------------|---|---|---|-------------------------------|--|--|
| YEAR 3 & 4 CYCLE A | Review previous coding – Year 3, Lesson 1 | Simulating a physical system – Year 3, Lesson 2 | Making a timer – Year 4, Lesson 4 | Debugging – Year 3, Lesson 6 | Making a control simulation – Year 4, Lesson 5 | Decomposition and Abstraction – Year 4, Lesson 6 |
| YEAR 3 & 4 CYCLE B | Review previous coding, Y4, lesson 1 | Introducing 'if' statements – Year 3, Lesson 3 | 'if/else' statements – Year 4, Lesson 2 | Repetition – Year 3, Lesson 5 | Repeat until - Year 4, Lesson 3 | Variables – Year 3, Lesson 4 |

| 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 5 & 6 CYCLE A* | 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 | | | | | | Weeks – 3 | | | Weeks – 5 | | | | | Weeks – 4 | | | | Weeks – 5 | | | | Weeks – 4 | | | Weeks – 4 | | | | | | |
| Main Programs – 2Code | | | | | | Programs - Various | | | Programs – 2Calculate | | | | | Programs – 2Question, 2Investigate | | | | Programs – 2DIY 3D | | | | Programs – 2Design and Make | | | 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 5 & 6 CYCLE B* | 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 – 3 | | | 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.

Coding Breakdown

| | | | | | | |
|--------------------|---|--|---|---|---|-------------------------------------|
| YEAR 5 & 6 CYCLE A | Review Previous coding – Year 5 Lesson 1 | Simulating a physical system – Year 5 Lesson 2 | Creating a game with a score and timer – Year 5 Lessons 4 and 5 | | The Launch Command – Year 5 Lesson 6 | Using User Input – Year 6, Lesson 4 |
| YEAR 5 & 6 CYCLE B | Designing and writing a more complex program – Year 6 Lessons 1 and 2 | | Introducing text variables – Year 5 Lesson 3 | Introducing Functions – Year 6 Lesson 3 | Flowcharts and control simulations – Year 6, Lesson 5 | Text Adventure – Year 6 Lesson 6 |

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) | |
| 3.9 | Presenting (with Microsoft PowerPoint or Google Slides) | Microsoft PowerPoint or Google Slides | |

| 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 | |
| 4.9 (Optional) | Making Music | Busy Beats | |
| | | 2Sequence | |
| | | 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) | |
| 5.8 | Word processing (with Microsoft Word or Google Docs) | MS Word or Google Docs | |

| 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 | |
| 6.9 (optional) | Spreadsheets (with Microsoft Excel or Google Sheets) | MS Excel or Google Sheets | |

| 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 5 & 6 CYCLE A* | 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 | | | | | | Weeks – 3 | | | Weeks – 5 | | | | | Weeks – 4 | | | Weeks – 5 | | | Weeks – 4 | | | Weeks – 4 | | | | | | | |
| Main Programs – 2Code | | | | | | Programs - Various | | | Programs – 2Calculate | | | | | Programs – 2Question, 2Investigate | | | Programs – 2DIY 3D | | | Programs – 2Design and Make | | | 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 5 & 6 CYCLE B* | 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 – 5 | | | | | | Weeks – 3 | | | 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.

Coding Breakdown

| | | | | | | |
|--------------------|---|--|---|---|---|-------------------------------------|
| YEAR 5 & 6 CYCLE A | Review Previous coding – Year 5 Lesson 1 | Simulating a physical system – Year 5 Lesson 2 | Creating a game with a score and timer – Year 5 Lessons 4 and 5 | | The Launch Command – Year 5 Lesson 6 | Using User Input – Year 6, Lesson 4 |
| YEAR 5 & 6 CYCLE B | Designing and writing a more complex program – Year 6 Lessons 1 and 2 | | Introducing text variables – Year 5 Lesson 3 | Introducing Functions – Year 6 Lesson 3 | Flowcharts and control simulations – Year 6, Lesson 5 | Text Adventure – Year 6 Lesson 6 |

| 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 & 4 CYCLE A | 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 | | | | | | Weeks – 3 | | | Weeks – 3 | | | Weeks – 4 | | | Weeks – 6 | | | | Weeks – 4 | | Weeks – 3 | | Weeks – 3 | | | | | | | | | |
| | Main Programs – 2Code | | | | | | Programs – Various | | | Weeks – 3 Programs – 2Calculate | | | Programs – 2Type | | | Programs – 2Email, 2Connect, 2DIY | | | | Programs – 2Question | | Programs – 2Simulate, 2Publish | | Programs – 2Graph | | | | | | | | | |
| | See table below for breakdown | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 3 & 4 CYCLE B | 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 | | | | | | Weeks – 4 | | | Weeks – 6 | | | | | | Weeks – 5 | | | Weeks – 4 | | Weeks – 3 | | Weeks – 3 | | Weeks – 2 | | | | | | | | |
| | Main Programs – 2Code | | | | | | Programs – Various | | | Programs – 2Calculate | | | | | | Programs – 2Email, 2Connect, 2DIY | | | Programs – Logo | | Programs – 2Animate | | Programs – Browser | | | | | | | | | | |
| | See table below for breakdown | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* There is an optional unit 4.9 – Making Music that can be used in addition to the above units. It is a four week unit.

Coding Breakdown

| | | | | | | |
|-----------------------|---|---|---|-------------------------------|--|--|
| YEAR 3 & 4 CYCLE A | Review previous coding – Year 3, Lesson 1 | Simulating a physical system – Year 3, Lesson 2 | Making a timer – Year 4, Lesson 4 | Debugging – Year 3, Lesson 6 | Making a control simulation – Year 4, Lesson 5 | Decomposition and Abstraction – Year 4, Lesson 6 |
| YEAR 3 & 4 CYCLE B | Review previous coding, Y4, lesson 1 | Introducing 'if' statements – Year 3, Lesson 3 | 'if/else' statements – Year 4, Lesson 2 | Repetition – Year 3, Lesson 5 | Repeat until – Year 4, Lesson 3 | Variables – Year 3, Lesson 4 |

Units by Year Group – Mixed 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 |
|--|-----------------------------------|---|--------------|---|--------------------|---|----------------|---|-------|--|------------------------|---|------------------------|---|----------------------------|

In Year 1 and 2 coding, the lessons need to be taught in sequence as each lesson introduces skills that are consolidated and developed in the next lesson. Therefore, it is proposed to teach coding for 11 weeks in Cycle A and none in Cycle B. It is also beneficial for all children to recap unit 1.1 in both cycles as this introduces children new to the class with key skills needed to make the most of Purple Mash.

| 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 1 & 2 – CYCLE A | Unit 1.1 Online Safety & Exploring Purple Mash Weeks – 4 Programs – Various | | | | Unit 2.5 Effective Searching Weeks – 3 Programs – Browser | | | Unit 1.4 Lego Builders Weeks – 3 Programs – 2DIY | | | Unit 1.9 Technology outside school Weeks – 2 Programs – Various | | | Unit 1.2 Grouping & Sorting Weeks – 2 Programs – 2DIY | | Unit 2.6 Creating Pictures Weeks – 5 Programs – 2PaintAPicture | | | | Unit 1.8 Spreadsheets Weeks – 3 Programs – 2Calculate | | | Unit 1.7 Coding Weeks – 6 Programs – 2Code | | | | Unit 2.1 Coding Weeks – 5 Programs – 2Code | | | | | | |

| 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 | 34 |
|----------------------|--|---|---|---|---|---|---|--|---|----|----|----|--|----|----|---|----|----|----|---|----|----|--|----|----|--|----|----|---|----|----|----|----|----|
| YEAR 1 & 2 – CYCLE B | Unit 1.1 Online Safety & Exploring Purple Mash Weeks – 4 Programs – Various | | | | Unit 1.5 Maze Explorers Weeks – 3 Programs – 2Go | | | Unit 2.4 Questioning Weeks – 5 Programs – 2Question, 2Investigate | | | | | Unit 2.2 Online Safety Weeks – 3 Programs – Various | | | Unit 1.6 Animated Story Books Weeks – 5 Programs – 2Create A Story | | | | Unit 2.7 Making Music Weeks – 3 Programs – 2Sequence | | | Unit 2.3 Spreadsheets Weeks – 4 Programs – 2Calculate | | | Unit 1.3 Pictograms Weeks – 3 Programs – 2Count | | | Unit 2.8 Presenting Ideas Weeks – 4 Programs – Various | | | | | |