




Units by Year Group – Mixed Age Classes

Theme Key:

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|--|--|--|--|---|--|--|--|
|  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 | |
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| 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 – | | | | | | | | | |

* 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

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

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