

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 <u>Tools section</u> 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 <u>Create and Manage Users</u>) 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: <u>2Dos Guide</u>.

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 <u>Create and Manage Users</u>. Alternatively, please contact support at <u>support@2simple.com</u> 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 | e Key: | | | | | | | | | | - | | | | | | - | | | | | | | | | | | | | |
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| 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 | Ex Wee | Dnline plorir M ks – 4 | t 1.1 e Safe & ng Pur ash – Vario | rple | Gro & S Wee | orting eks – 2 grams | We Pro | Unit 1 ctogran eeks – C ograms ount | ns 3 | Lego | Init 1. o Build eks – S grams (| ders 3 | E Wee | Unit 1 Maze xplore eks – S | e ers | Wee | nima Bo eks – gram | ooks - 5 | Story | | | Coo | t 1.7 Jing 2Coo | | | _ | eks – gram | heets - 3 Is – | Tech Ou So Weel | nit 1.9 nology Itside thool (s – 2 rams – us |
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| YEAR 2 | | eks – ! grams | 5 - 2C | ode | | Week Progr | | | Weel Progr | | | | | eks – grams | | luesti | | Prog | eks – 3 grams owser | We | eks - Proį | | ns – | | | eks – ogran | Ē | | eks – 4 grams | |
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| Week | 1 | 2 | | 3 | 4 | 5 | 6 | 7 | | 8 | | 9 | 10 | 1 | 1 | 12 | 13 | 1 | 14 | 15 | 16 | 17 | 1 | 8 1 | 9 | 20 | 21 | 22 | 2 2 | 23 | 24 | 25 | 26 | 27 | 7 28 | 2 | 9 | 30 | 31 | 3 | 2 | |
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| YEAR 3 | Nu | mbe | er of | fW | eeks | s — (| 6 | | | | | | We | eks | s — 3 | 3 | We | eek | ks – | 4 | | We | eks | s – 6 | 5 | | | | v | Vee | ks – | 4 | | | | - | | We | eks - | - 3 | | |
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| | Ma | nin P | rog | ram | 1 S — | 2Co | ode | Vari | iou | S | | | Pro | <u> </u> | | | | · · | ram | s – | | | | | | | nail, | | | | ram | | | | Simu | | | | ogra | | | |
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| YEAR 4 | | | | | | | | We | eks | <u> </u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ΥE | Nu | mbe | er of | fW | eeks | s — (| 6 | | cho | | | | | w | /eek | (s – | 6 | | | | | Wee | eks | - 5 | | | | w | eek | (s – | 4 | | We | eks | s – 3 | w | /ee | ks - | - 3 | W | eek | s – 2 |
| | | | | | | | | Pro | gra | ms - | - Va | rio | us | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | or | r <mark>6</mark> (\ | ersi | on d | epen | iden | t) | | | in Pro | ogra | am - | – Bu | sy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | М | lain | Prog | gram | ∩ – N | /IS | | E | Bea | ts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ower | Poir | nt or | Go | ogle | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sli | ides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 1 | 8 1 | 9 | 20 2 | 21 | 22 2 | 23 2 | .4 | 25 20 | 5 27 | 28 | 29 | 30 | 31 | 32 |
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| YEAR 5 | Nun Mai | | | ling /eek | s — (| 6 | Onl Weel | ams - | | | Sr eks – grams | Unit pread | t 5.3 Ishee | ets | | D Wee Prog 2Qu | Unit 5 Databa eks – 4 grams lestion vestiga | ses | | Week | me (s – | | ator | BD | | s – 4 i ms - | lling | We | once | 4 ams | laps 5 – |

Unit 5.8 Word processing (with Microsoft Word or Google Docs)

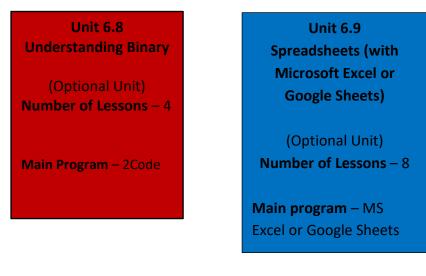
(Optional Unit)

Number of Lessons – 8

Main program – MS Word or Google Docs

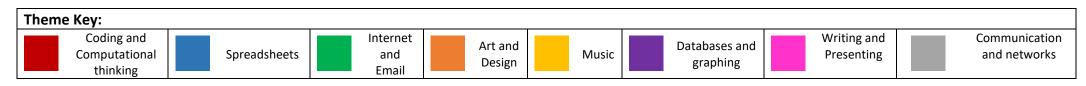


| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
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| YEAR 6* | Nun | nber o | f Wee | eks – (| 6 | | Weel | (s – 2 | | Wee | eks – | 5 | | | Weel | (s – 5 | 5 | | | Wee | | | | | We | eks - | | | eks – (| | | |
| | Mai | n Prog | rams | – 2Cc | ode | | Progi Vario | ams - us | | Pro | grams | 5 – 20 | Calcu | ılate | Progi | rams | - 21 | Blog | | Pro | | ns – onne | | de, | | | | _ | | i – 2Qı kit, 2In | | |





Units by Year Group – Mixed Age Classes



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 1 | 6 17 | 18 19 | 20 | 21 22 | 23 | 24 25 | 26 | 27 | 28 | 29 | 30 | 31 3 | 32 | 33 |
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| A | O | | nit 1 ne S | | y | Eff | nit 2 fecti archi | ve | | Jnit : o Bu | | s Tech | it 1.9 nology tside | Grou | t 1.2 Iping rting | | Unit 2 ting Pi | .6 ctures | | nit 1.8 adsheet | 5 | | it 1.7 ding | | | | | nit 2.1 oding | | |
| 2 – CYCLE | | | & plor <mark>ple</mark> [| - | h | Wee | | Ū | | | | | hool | a 30 | rung | | | | | | | | | | | | | | | |
| త | We | ek | s – 4 | | | Prog Brov | | | Wee | eks – | - 3 | Wee | ks – 2 | Week | k <mark>s</mark> – 2 | Weeks Progra | | | Wee | ks – 3 | Wee | e ks — 6 | | | | Week Progr | | 5 5 – 2Co | ode | |
| | Pro Var | | a ms - IS | - | | 2.0. | | | Prog 2DI\ | | IS — | Prog Vario | | Progr – 2DI | | 2Paint/ | | re | | rams – culate | Prog | grams – | 2Cod | le | | | | | | |
| Week | 1 | | 2 | 3 | 4 | 5 | 6 | ; | 7 8 | 8 | 9 1 | 10 11 | 12 | 13 14 | l 15 | 16 17 | 7 18 | 19 20 | 21 | 22 23 | 24 | 25 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| CYCLE B | | On | Unit line 8 oring | Safe | - | | Unit Ma xplo | ze | | C | | t 2.4 tioning | ; | Unit Onli Safe | ne | | Unit 1 mated Book | Story | M | nit 2.7 laking Ausic | | Jnit 2.3 eadshe | | | nit 1. ogran | | Pre | Unit 2 sentin | | eas |
| 1 & 2 - | | | Ma s – 4 | sh | | | eeks | - 3 | w | /eek | s — 5 | | | Neeks | | Weeks | s – 5 | | Wee | ks – 3 | Wee | ks – 4 | | Vee | eks — I | | Vee | ks – 4 | | |
| YEAR | | ogr | ams | | | | ograi | | - 20 | Ques | ams - tion, tigat | | | /arious | | | ims – 2 | 2Create | | rams – uence | | r ams – culate | P | rog | grams unt | F | | r ams Dus | _ | |



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| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 8 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 3 | 2 |
|--------|--------------|-------|-------|--------|--------------|---|-------|----------------------|-------|-------|--------|-------|----------|---------|---------------|-----|------|------|--------|-------|------|------|-------|-------|-------|------|---------------------|-------|------|---------------|-----------------|----------|
| | | | Codi | ing | | | U | Jnit 3. | 2 | | Unit 3 | 3.3 | | Un | it 3.4 | | | | Uni | t 3.5 | | | | Uni | t 3.6 | 5 | U | nit 3 | .7 | U | nit 3.8 | 3 |
| - | | | | | | | Onli | ine sa | fety | Sp | reads | hee | t | Touch | ו Typi | ng | | | En | nail | | | B | Bran | chin | g | Sim | ulati | ons | Gr | aphin | g |
| LE A | | | | | | | | | | | S | | | | | | (inc | ludi | ing e | email | safe | ty) | D | ata | base | es | | | | | | |
| CYCLE | Nun | nber | of We | eks - | - 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | Wee | ks – 3 | | | | | | | | | | _ | | | | | | | | | Wee | eks – | | | | |
| 8 8 | Mai | n Pro | grams | 5 – 20 | Code | | | | | | | | W | eeks – | 4 | | Wee | ks – | - 6 | | | | Wee | eks · | - 4 | | | | | Wee | e ks – 3 | 5 |
| YEAR 3 | | | | | | | | r <mark>ams</mark> - | - | We | eks – | - 3 | | | | | | | | | | | | | | | | gram | | | | |
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| | brea | akdov | vn | | | | | | | | ogram | | | | | | 2Cor | nec | ct, 21 | DIY | | | 2Qu | iesti | on | | 2Pu | blish | | 2 | Graph | |
| | _ | | | 1 - | Ι_ | | | | | | alcula | | | | T | | | | | | | | | | | | | | | | | |
| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 15 | 16 | 17 | | | 20 | 21 | | | | | | 27 | | | 30 | | 2 3 |
| | | | Codi | ing | | | | Unit | | | | | | nit 4.3 | | | | | nit 4 | | | | Unit | | | | nit 4. | | | it 4.7 | | Unit 4.8 |
| B | | | | | | | 0 | nline | satet | ty | | | Spre | adshe | ets | | Writ | - | | diffe | ent | | Log | go | | Ani | mati | on | | ectiv | | ardwa |
| E | | | | | ~ | | | | | | | | | | | | | aud | dien | ces | | | | | | | | | Se | earch | Inv | /estigat |
| CYCLE | Nun | nber | of We | eks - | - 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| & 4 | N 4-: | | _ | | C odo | | wee | ks – 4 | | | | Leo | c | | | | | l.a | F | | | | | | | | | 2 | | | | eeks – 2 |
| ŝ | Iviai | n Prc | grams | 5 - 20 | Lode | | Drog | | Var | ciouc | Wee | eks – | - 6 | | | | Wee | KS – | - 5 | | | wee | eks – | - 4 | | vvee | eks – | 3 | wee | ks – 3 | 3 | eeks – A |
| YEAR | Soc | table | below | for | | | Prog | rams - | - Var | lous | | tram | <u>م</u> | 2Calcu | lato | | Drog | ram | | 2Ema | , il | Dros | Trans | | | Droc | Tram | | Drog | rams | | |
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| | brea | akuov | | | | | | | | | | | | | | | 2001 | met | .t, 21 | | | Logo | | | | ZAII | mat | | | /ser | | |

* 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.

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



| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 2 | 1 | 22 2 | 3 24 | 4 25 | 26 | 5 27 | 28 | 29 | 30 | 31 |
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| | | | Uni | t 5.1 | | | ι | Jnit 5.2 | 2 | | | Unit 5 | 5.3 | | | Unit | 5.4 | | | Uni | t 5. | 5 | | Un | it 5. | .6 | | Ur | nit 5.7 | ' |
| *A | | | Coc | ding | | | Onl | ine saf | ety | | Sp | reads | neets | | 1 | Datab | ases | | G | iame | Crea | ator | 3 | DM | ode | lling | C | once | ept M | aps |
| YCLE | | | | | | | Weel | (s – 3 | | | ١ | Weeks | - 5 | | | | | | | | | | | | | | | | | |
| 9 | Num | iber o | of Wee | eks – | 6 | | Dre | | _ | Dre | | | Colou | امدم | Wee | eks – 4 | 4 | | Wee | eks – S | 5 | | W | eeks | -4 | | We | eks - | - 4 | |
| AR 5 & | Mair | າ Pro _{ອິ} | grams | – 2Co | ode | | | o <mark>gram</mark> /arious | | Pro | ogra | ms – 2 | Calcu | late | | grams | | | - | grams | - 2 | DIY | | ograi | | | | gran | | |
| YEAR | | | | | | | | | | | | | | | | estior estiga | | | 3D | | | | | esign ake | and | 1 | 2Co | nnec | t | |
| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 2 | 1 | 22 2 | 3 24 | 4 25 | 26 | 6 27 | 28 | 29 | 30 | 31 |
| | | | Uni | t 6.1 | | | | | | | 1 | Unit 6 | 5.3 | 1 | | | it 6.4 | | | | | it 6.5 | | | Init | | | | Unit 6 | .7 |
| 8 | | | Coc | ding | | | | Jnit 6.2 | | | Sp | reads | neets | | | Blo | ggin | g | | Text | Ad | vent | ures | Ne | etwo | orks | | C | Quizzi | ng |
| CYCLE | | | | | | | Onl | ine saf | ety | | | | | | | | | | | Week | s — | 5 | | We | eks | - 3 | Wee | eks – | · 6 | |
| | Num | nber o | of Wee | eks – | 6 | | Weel | (s – 3 | | We | eks · | - 5 | | | Wee | eks – S | 5 | | | | | | | | | J | | | Ŭ | |
| ы | | | | | | | | | | | | | | | | | | | | Progra | ams | <mark>s – 2</mark> 0 | ode, | | | | Prog | gram | i <mark>s –</mark> 20 | Quiz, |
| YEAR | Mair | n Prog | grams | - 2Co | ode | | | ogram | | Pro | grar | ns – 20 | Calcula | ate | Prog | grams | i — 28 | Blog | 2 | 2Conr | lect | | | | | | | | xt Toc | olkit, |
| | | | | | | | \ | /arious | 5 | | | | | | | | | | | | | | | | | | 2Inv | estig | gate | |
| L | | The | ro is a | nont | tional | lunit | <u> </u> | Indore | tane | ling | Rina | ry that | t can t | | od ir | addi | tion | | ho al | hove | uni | to It | is a f | | | k usi | • | | | |

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



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 | 2Туре |
| | 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 | Making Music | Busy Beats |
| | (Optional) | | 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 | Understanding Binary | 2Connect (Mind Map) |
| | (optional) | | 2Question (Binary Databases) |
| | | | Writing Templates |
| | | | 2Code |
| | 6.9 (optional) | Spreadsheets (with Microsoft Excel or Google Sheets) | MS Excel or Google Sheets |



| Veek | 1 | 2 | 3 | | 4 | 5 | 6 | 7 | 8 | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 2 | 21 | 22 2 | 3 24 | 25 2 | _ | 28 | 29 | 30 | 31 |
|--|--|---|---|---------------|-----------|-----------------------------|------------------------------------|------------------------------------|--------------------------|--|----|--------------------------|-------------------------------------|------------------------------------|-----------------------------------|----|----|---------------|--|----|-------------------------------------|-------------------|----------------|-------------------------|------|-----------------|------|----|----|------------------|----|
| | | | | nit 5 odin | | | | 1.5 | Unit 5 line si | | ty | Unit 5.3 Spreadsheets | | | | | | Unit Datab | | | G | Uni iame | it 5. Cre | - | 3 | Unit 9 D Mod | | | | nit 5.7 ept M | |
| YEAR5 & 6 CYCLE A* | Number of Weeks - 6 Main Programs - 2Code /eek 1 2 3 4 5 Unit 6 1 | | | | Wee Pr | | Weeks – 5 Programs – 2Calculate | | | | | | eks – grams Jestio Jestigi | Weeks – 5 Programs – 2DIY 3D | | | | Pro | eks – 4 grams Isign an ke | - | Weeks – 4 Programs – 2Connect | | | | | | | | | | |
| Veek | 1 | 2 | 3 | | 4 | 5 | 6 | 7 | 8 | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 2 | 21 | 22 2 | 3 24 | 25 2 | 6 27 | 28 | 29 | 30 | 31 |
| o LTLLE B' | Unit 6-1 Coding | | | | On | Unit 6 line si ks — 3 | afet | | Unit 6.3 Spreadsheets | | | | | | Unit 6.4 Blogging Weeks – 5 | | | | Unit 6.5 Text Adventur Weeks – S | | | | and the second | : 6.6 /orks s – 3 | | | | | | | |
| Number of Weeks – 5 Main Programs – 2Code | | | | | | | Calcul | Weeks – 5 Programs – 2Calculate | | | | | | Programs – 2Coo 2Connect | | | | de, | | | 1000 | is – 20 xt Too | | | | | | | | | |

| YEAR 5 & 6 CYCLE A | Review Previous coding - Year S Lesson 1 | Simulating a physical system – Year 5 Lesson 2 | Creating a game w - Year 5 Lessons 4 | vith a score and timer and 5 | The Launch Command – Year 5 Lesson 6 | Using User Input – Year 6, Lesson 4 |
|-----------------------|--|--|--|---|---|--|
| YEAR 5 & 6 CYCLE B | Designing and write program – Year S Le | e a more complex ssons 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 |



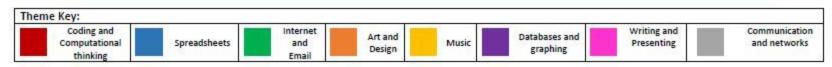
| Veek | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 20 | 21 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 1 |
|--------------|-----------|--|----------------|---|---|-------|-------------------------|--------------------|---|---------------|----------------------|------------------|---------------|--------------|-----------------|-------------|------------------------------|--------------------|-----------------------------|----------------|------------------------|---------------------|----|---------------------|---------------------------------|-----------------|---------------------|------|-----------------------|-------------|------|
| CYCLE A | Nuo | Coding Jumber of Weeks - 6 Main Programs - 2Cod iee table below for | | | | | 1.1.5 | Jnit 3. line sa | | 1.0 | Unit S reads S | | | | it 3.4 Typir | ng | (incl | | Unit 3.5 Email g emai | i I safety) | | Uni Bran Data | | g | | Jnit 3 nulat | | | Unit irapl | 3.8 hing | |
| YEAR3 & 4 CY | breakpown | | | | | enna. | ks – 3 rams - ous | | | eks - gram | | | eks – gram | 4 s – 2Ty | ype | | ráms | 6 2Em , 2DIY | ail, | Pro | eeks ogran uesti | ns — | 2 | Pro 2Sir | eks - gran mula ublisł | ns – te, | Pr | ogra | s — 3 ams — aph | | |
| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2Ca | licula 11 | | 13 | 14 | 15 | 16 | 17 | 18 | 19 20 | 21 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | |
| CYCLE B | Num | | | | | | | ty | | | | nit 4.3 adshe | | | Writi | Un ing f | it 4.4 or diffe iences | Uni | t 4.5 go | - | Un | nimation Eff | | | | | | | | | |
| YEAR 3 & 4 C | See | | grams belov | | | | | ks – 4 rams - | | rious | | eks – I grams | | Calcul | ate | | 10000 | rams | 5 2Em , 2DIY | | | - 4 ns - | | Wee Prog 2Ani | ran | ns — | Wee Prog Broy | gram | is- | Wee | ks - |

* 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.

| 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 | | Repetition – Year 3, Lesson 5 | Repeat until - Year 4, Lesson 3 | Variables – Year 3, Lesson 4 |



Units by Year Group – Mixed Age Classes



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 | 1 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
|-------------|--|---------------------|-------------|------|---------------------------------|----------|-----------|----------------------------|--------|----------------|---------------|----|-------|----------------------------------|---------------------|--------------------------|--------------|------------------------|----------------|------------|----|------|-------------------------|--------------|-----------|-------------|---------------|---------------|----|-------|------|---------------|-----------------|----------------|----|
| -CYCLE A | | nlin | & plor | afet | | E1 Se | arc | 2.5 tive hing - 3 | Le | | t 1.4 wild | | Tech | nt 1.9 nolog tside hool | y Gro | t 1.2 uping orting | | Ui reatii | nit 2 ng Pi | | es | | Init I eadsi | l.8 heets | | | | t 1.5 ding | | | | | init 2 Codin | | |
| YEAR 1 & 2- | We | eks | - 4 ms | | h | | grai | ms - | - 1044 | ogra | - 3 ms - | | -2072 | ks – 2 rams - | | ks – 2 rams | Pro | eks – gram intAF | 15 | re | | Proj | eks – gram Icula | 5- | We Pro | eks grai | | 200 | de | | | eks – gram | 5 s-2 | Cod | e |
| Week | 1 | | 2 | 3 | 4 | 5 | ; | 6 | 7 | 8 | 9 | 10 | 1 | 12 | | - | 16 | 17 | 18 | 19 | 20 | | | - | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 3 |
| CYCLE B | Unit 1.1 Online Safet & Exploring Pur | | | | ety Unit 1. Maze Explored | | | | 5 | Unit Questi | | | | | Unit Oni Safe | ine ety | | U | nit 1 | .6 Stor | | UN | Init 2 Makii Musi | .7 ng | - | Unit | : 2.3 shee | | | ogra | | Pre | Uni sent | t 2.8 ing l | |
| 8.2- | We | eek | Ma s – 4 | | | w | eek | 5- | 3 | | ks – | | | | Weeks Program | s | We | eks - | - 5 | | | | eks – | 120 | Wee | | | | We | eks – | 3 | | eks – | | |
| YEJ | | Programs /arious | | | | | ogr So | 9499 | - | 1 OBIONIS | | | | Variou | | | gram tory | ns – | 2Cre | ate | | | | | | | | | | 5- | 1000 | gram ious | 15 - | | |



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