



## 2024 Old Hutton CE School

### Computing Long-term Planning and Assessment

(Y1/2)

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.

**Year A**

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>To Communicate</b></p> <p>Unit 1.1 Online Safety &amp; Exploring Purple Mash Weeks – 4 Programs – Various</p>	<p><b>To Code</b></p> <p>Unit 1.4 Lego Builders Weeks – 3 Program – 2 DIY</p>	<p><b>To Code</b></p> <p>Unit 1.2 Grouping &amp; Sorting Weeks – 2 Programs – 2 DIY</p>	<p><b>To Connect</b></p> <p>Unit 1.8 Spreadsheets Weeks – 3 Programs – 2 Calculate</p>	<p><b>To Code</b></p> <p>Unit 1.7 Coding Weeks – 6 Programs – 2 Code</p>	<p><b>To Code</b></p> <p>Unit 2.1 Coding Weeks – 5 Programs – 2 Code</p>
<p><b>To Connect</b></p> <p>Unit 2.5 Effective Searching Weeks – 3 Programs – Browser</p>	<p><b>To Communicate</b></p> <p>Unit 1.9 Technology outside school Weeks – 2 Programs – Various</p>	<p><b>To Connect</b> <b>To Code: Draw</b></p> <p>Unit 2.6 Creating Pictures Weeks – 5 Programs – 2 PaintAPicture</p>			

**Year B**

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>To Communicate</b></p> <p>Unit 1.1 Online Safety &amp; Exploring Purple Mash Weeks – 4 Programs – Various</p>	<p><b>To Collect</b></p> <p>Unit 2.4 Questioning Weeks – 5 Programs – 2 Question, 2 Investigate</p>	<p><b>To Connect</b> <b>To Code: Draw</b></p> <p>Unit 1.6 Animated Story Books Weeks – 5 Programs – 2 Create A Story</p>	<p><b>To Connect</b></p> <p>Unit 2.7 Making Music Weeks – 3 Programs – 2 Sequence</p>	<p><b>To Connect</b></p> <p>Unit 2.3 Spreadsheets Weeks – 4 Programs – 2 Calculate</p>	<p><b>To Connect</b></p> <p>Unit 2.8 Presenting Ideas Weeks – 4 Programs – Various</p>
<p><b>To Code</b></p> <p>Unit 1.5 Maze Explorers Weeks – 3 Programs – 2 Go</p>	<p><b>To Communicate</b></p> <p>Unit 2.2 Online Safety Weeks – 3 Programs – Various</p>			<p><b>To Collect</b></p> <p>Unit 1.3 Pictograms Weeks – 3 Programs – 2 Count</p>	

<b>Vocab</b>
<p><b>Code</b> algorithm coding debug, programme, sequence, robot, input, control, events, volume, sound, text strings, motion, sprite, implement, executed, instructions</p>
<p><b>communicate</b> e-safety, search, internet, address, digital footprint, personal information, private,</p>
<p><b>Connect</b> search engine, presentation, powerpoint, paste, copy, text, program, technology, digital content</p>
<p><b>Collect</b> Data, handling, graph, bar, collect, question, questionnaire, y-axis, x-axis, pie, sort, record, field, line, sum,</p>

(Y3/4)

Year A

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>To Code</b> Coding Weeks – 6 Programs – 2 <b>Code See table below for breakdown</b>	<b>To Communicate</b> Unit 3.2 Online safety Weeks – 3 Programs – Various	<b>To Connect</b> Unit 3.4 Touch Typing Weeks – 4 Programs – 2 Type	<b>To Communicate</b> Unit 3.5 Email (including email safety) Weeks – 6 Programs – 2 Email, 2Connect, 2DIY	<b>To Collect</b> Unit 3.6 Branching Databases Weeks – 4 Programs – 2 Question	<b>To Collect</b> Unit 3.8 Graphing Weeks – 3 Programs – 2 Graph
	<b>To Connect</b> Unit 3.3 Spreadsheets Weeks – 3 Programs – 2 Calculate			<b>To Communicate</b> Unit 3.7 Simulations Weeks – 3 Programs – 2 Simulate, 2Publish	<b>To Code</b> Unit 3.10 Microbits 4 lessons Free Code Microbit

Year B

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>To Code</b> Coding Weeks – 6 Programs – 2 <b>Code See table below for breakdown</b>	<b>To Communicate</b> Unit 4.2 Online safety Weeks – 4 Programs – Various	<b>To Connect</b> Unit 4.3 Spreadsheets Weeks – 6 Programs – 2 Calculate	<b>To Connect</b> Unit 4.4 Writing for different audiences Weeks – 5 Programs – 2 Email, 2Connect, 2DIY	<b>To Connect</b> <b>To Code: Draw</b> Unit 4.6 Animation Weeks – 3 Programs – 2 Animate	<b>To Communicate</b> Unit 4.8 Hardware Investigators Weeks – 2
			<b>To Code</b> Unit 4.5 Logo Weeks – 4 Programs – Logo	<b>To Communicate</b> Unit 4.7 Effective Search Weeks – 3 Programs – Browser	<b>To Communicate</b> Unit 3.9 Presenting (with Microsoft PowerPoint or Google Slides)

\* 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. **To code : Sounds**

**Coding breakdown**

<b>Y3/4 Year A</b>	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
<b>Y3/4 Year B</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

## Vocab

### Code

algorithm coding debug, programme, sequence, robot, input, control, events, volume, sound, text strings, motion, sprite, implement, executed, instructions

### communicate

e-safety, search, internet, address, digital footprint, personal information, private,

### Connect

search engine, presentation, powerpoint, paste, copy, text, program, technology, digital content

### Collect

Data, handling, graph, bar, collect, question, questionnaire, y-axis, x-axis, pie, sort, record, field, line, sum,

(Y5/6)

Year A

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>To Code</b> Unit 5.1 Coding Weeks – 6 Programs – 2Code	<b>To Communicate</b> Unit 5.2 Online safety Weeks – 3 Programs - Various	<b>To Collect</b> Unit 5.4 Databases Weeks – 4 Programs – 2Question, 2Investigate	<b>To Connect</b> <b>To Code: Draw</b> Unit 5.5 Game Creator Weeks – 5 Programs – 2DIY 3D	<b>To Connect</b> <b>To Code: Draw</b> Unit 5.6 3D Modelling Weeks – 4 Programs – 2Design and Make	<b>To Connect</b> Unit 5.7 Concept Maps Weeks – 4 Programs – 2Connect
	<b>To Connect</b> Unit 5.3 Spreadsheets Weeks – 5 Programs – 2Calculate				

Year B

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>To Code</b> Unit 6.1 Coding Weeks – 6 Programs – 2Code	<b>To Communicate</b> Unit 6.2 Online safety Weeks – 3 Programs - Various	<b>To Connect</b> Unit 6.4 Blogging Weeks – 5 Programs – 2Blog	Unit 5.9 Using External Devices 2Code Purple Chip Weeks - 6	<b>To Communicate</b> Unit 6.6 Networks Weeks – 3	<b>To Connect</b> Unit 6.7 Quizzing Weeks – 6 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

<b>Y5/6</b> <b>Year A</b>	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 5
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<b>Y5/6 Year B</b>	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 4	Text Adventure – Year 6 Lesson 6
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<p><b>Code</b> algorithm coding debug, programme, sequence, robot, input, variable, control, events, volume, sound, text strings, motion, sprite, python, HTML, operators</p>
<p><b>Communicate</b> cyberbullying, trolling, apps, e-safety network, web, virus, search, URL, share, spam, safety, hit, hyperlink, internet, bookmarks, browser, attachment, address, digital footprint, LAN, WAN</p>
<p><b>Connect</b> Input device output device, search engine, presentation, powerpoint, paste, copy, text, align, multimedia</p>
<p><b>Collect</b> Data, handling, graph, bar, database, branching, collect, question, questionnaire, y-axis, x-axis, pie, respondent, sort, record, field, line, sum, manipulate</p>