## **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.

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\* 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	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				



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Number of Weeks - 6       Weeks - 3       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 5</td></td>	Unit 5.1 CodingUnit 5.2 Online safetyUnit 5.3 SpreadsheetsNumber of Weeks – 6 Main Programs – 2CodeWeeks – 3 Programs - VariousWeeks – 5 Programs - Various1234567891011121314Unit 6.1 CodingUnit 6.2 Online safetyUnit 6.2 SpreadsheetsUnit 6.3 SpreadsheetsSpreadsheetsNumber of Weeks – 6Weeks – 3Weeks – 5Unit 6.3 SpreadsheetsNumber of Weeks – 6Weeks – 3Weeks – 5Main Programs – 2CodePrograms -Programs – 2Calculate	Unit 5.1 Unit 5.2 Unit 5.3   Coding Online safety Spreadsheets   Number of Weeks – 6 Weeks – 3 Weeks – 5   Main Programs – 2Code Programs - Various Programs – 2Calculate   1 2 3 4 5   6 7 8 9 10 11 12   1 2 3 4 5 6 7 8 9 10 11 12 13 14   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15   Unit 6.1 Coding Unit 6.2 Online safety Unit 6.3 Spreadsheets Spreadsheets Veeks 4   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks Weeks 4   Main Programs – 2Code Programs - Programs – 2Calculate Programs – 2Calculate	Unit 5.1 Unit 5.2 Unit 5.3 Unit Datable   Coding Online safety Spreadsheets Datable   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 5   Main Programs – 2Code Various Programs – 2Calculate Programs – 2Calculate   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16   Unit 6.1 Unit 6.1 Unit 6.2 Unit 6.3 Unit 6.3 Unit 6.3 Unit Blog   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 5 Blog   Number of Weeks – 6 Programs – 2Calculate Programs – 2Calculate Programs – 2Calculate	Unit 5.1 Unit 5.2 Unit 5.3 Unit 5.4   Coding Online safety Spreadsheets Databases   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 4   Main Programs – 2Code Various Programs – 2Calculate Programs – 2Question, 2lnvestigate   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17   Unit 6.1 Unit 6.2 Unit 6.2 Online safety Unit 6.3 Unit 6.4 Blogging   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 5 Programs – 2Calculate	Unit 5.1 Unit 5.2 Unit 5.3 Unit 5.4   Coding Online safety Spreadsheets Databases   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 4   Main Programs – 2Code Various Programs – 2Calculate Programs – 2Calculate   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18   Unit 6.1 Coding Unit 6.2 Unit 6.2 Online safety Spreadsheets Unit 6.3 Unit 6.4 Blogging   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 5 Weeks – 5 Meeks – 5   Main Programs – 2Code Programs - 2Calculate Programs – 2Calculate Programs – 2Calculate Programs – 2Calculate	Unit 5.1 Unit 5.2 Unit 5.3 Unit 5.4   Coding Online safety Spreadsheets Databases   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 4   Main Programs – 2Code Various Programs – 2Calculate Programs – 2Calculate   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19   Unit 6.1 Unit 6.2 Online safety Unit 6.3 Unit 6.4 Blogging Blogging 10 11 12 13 14 15 16 17 18 19   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 5 Weeks – 5 Blogging 10 11 12 13 14 15 16 17 18 19   Unit 6.1 Online safety Online safety Programs – 2Calculate 10 11 12 13 14 15 16 17 18 19   Unit 6.1 Unit 6.2 Online safety Online safety Spreadsheets Weeks – 5 Weeks – 5 Weeks – 5   Number of Weeks – 6 Weeks – 3 Weeks – 5 Programs – 2Calculate Programs – 2Calculate Programs – 2Blog	Unit 5.1       Unit 5.2       Unit 5.3       Unit 5.4       Unit 5.4         Coding       Online safety       Spreadsheets       Databases       Game C         Number of Weeks – 6       Weeks – 3       Weeks – 5       Weeks – 4       Weeks – 5         Main Programs – 2Code       Various       Programs – 2Calculate       Programs – 2Calculate	Unit 5.1 Coding       Unit 5.2 Online safety       Unit 5.3 Spreadsheets       Unit 5.4 Databases       Unit 5.4 Game Creation         Number of Weeks – 6       Weeks – 3       Weeks – 5       Weeks – 5       Weeks – 4       Weeks – 5         Main Programs – 2Code       Various       Programs – 2Calculate       Programs – 2Calculate       Programs – 2Question, 2lnvestigate       Programs – 2Question, 2lnvestigate       Programs – 2Question, 2lnvestigate       20       21       2         1       2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       2         1       2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       2         1       2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       2         1       2       3       4	Unit 5.1 Unit 5.2 Unit 5.3 Unit 5.4 Unit 5.5   Coding Online safety Spreadsheets Databases Game Creator   Number of Weeks – 6 Weeks – 3 Weeks – 5 Weeks – 5 Weeks – 4 Weeks – 5   Main Programs – 2Code Programs – Various Programs – 2Calculate Programs – Programs –   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23   Unit 6.1 Unit 6.2 Unit 6.2 Online safety Unit 6.3 Unit 6.4 Unit 6.5 Unit 6.5   Number of Weeks – 6 Weeks – 3 Weeks – 5   Number of Weeks – 6 Programs – 2Calculate Programs – 2Calculate Programs – 2Calculate Programs – 2Elog	Unit 5.1 Coding       Unit 5.2 Online safety       Unit 5.3 Spreadsheets       Unit 5.4 Databases       Unit 5.5 Game Creator       3I         Number of Weeks – 6       Weeks – 3       Weeks – 5       Weeks – 5       Weeks – 4       Weeks – 5       Weeks – 2000       Programs – 2Calculate       Programs – 2DIY 3D       2De 21       22       23       24         1       2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24         Unit 6.1       Unit 6.2       Unit 6.3       Unit 6.4       Unit 6.5       Text Adventures         Number of Weeks – 6       Weeks – 3       Weeks – 5       Weeks – 5       Weeks – 5       Weeks – 5         Number of Weeks – 6       Programs – 2Code       Programs – 2Calculate       Programs – 2Calculate       Programs – 2Blog       2Connect	Unit 5.1 Coding       Unit 5.2 Online safety       Unit 5.3 Spreadsheets       Unit 5.4 Databases       Unit 5.5 Game Creator       Unit 5.5 3D Mod         Number of Weeks - 6       Weeks - 3       Weeks - 5       Weeks - 5       Weeks - 4       Weeks - 4       Weeks - 5       Weeks - 5       Weeks - 3       Weeks - 1       Programs - 2Colculate       Programs -	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         Number of Weeks – 6       Weeks – 3       Weeks – 5       Weeks – 4       Weeks – 5       Weeks – 4       Programs – 2Cole       Various       Programs – 2Calculate       Programs – 2Calculate       Programs – 2Calculate       Programs – 2Calculate       Programs – 2DIY       Programs – 2Disign and Make         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         Unit 6.1       Unit 6.2       Unit 6.3       Unit 6.3       Unit 6.4       Unit 6.5       Unit 6.5       Unit 6.6       Networks         Number of Weeks – 6       Weeks – 3       Weeks – 5       Weeks – 5       Weeks – 5       Weeks – 5       Weeks – 3       Weeks – 3       Weeks – 5       Weeks – 3       Weeks – 3       Weeks – 2       Programs – 2Cole, 2Connect       Various       Various       Various       Various       Various       Vari	Unit 5.1 Unit 5.2 Unit 5.3 Unit 5.4 Unit 5.4 Unit 5.5 Unit 5.6 3D Modelling O   Number of Weeks - 6 Weeks - 3 Weeks - 5 Weeks - 4 Weeks - 4 Weeks - 5 Weeks - 4 Weeks - 4 Weeks - 5 Weeks - 4 Weeks - 4 Weeks - 4 Weeks - 5 Weeks - 4 Weeks - 5 Unit 6.1 <td>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 5.6 Coding         Number of Weeks - 6       Weeks - 3       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 4       Weeks - 4       Weeks - 4       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 5</td> <td>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 M.         Number of Weeks - 6       Weeks - 3       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 5</td>	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 5.6 Coding         Number of Weeks - 6       Weeks - 3       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 4       Weeks - 4       Weeks - 4       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 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 M.         Number of Weeks - 6       Weeks - 3       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 4       Weeks - 5       Weeks - 5

## Coding Breakdown

YEAR 5 & 6 CYCLE A		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	

