

The logo for Purple Mash, featuring the word "purple" in a purple font and "mash" in a white font, both on a black rectangular background with a torn top edge.

**purple
mash**

Computing Scheme of Work Overview Year 1

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Introduction

This document contains an overview of the units included in the Purple Mash Computing Scheme of Work for Year 1.

For detailed lesson plans and resources, see the documents for the individual units themselves.

Most lessons assume that children are 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 Mange 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'.

Linking the lessons to curriculum objectives

At the end of this document you will find a breakdown showing how the units relate to the curricula of England, Wales, Northern Ireland and Scotland. Within each unit document is a section called Assessment Guidance with exemplars of how a child at emerging, expected and exceeding level of achievement could demonstrate this in their work through the unit. These statements could also be used for reporting.



This information can be used in association with the Purple Mash Data Dashboard to make and record judgements about children's outcomes and demonstrate progress over time.

Data

For more information about the Data Dashboard see the [Data Dashboard manual](#) or view the videos within the Data Dashboard tool.

Differentiation

Where appropriate, guidance has been given on how to simplify tasks within lessons or challenge those who are ready for more stretching tasks.

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Adapting and Refining the Scheme for your School

In an ideal world, pupils would be able to complete all units; this provides a wide range of different technological experiences using a variety of tools. The overlaps between units serve to deepen understanding of computational concepts and provide opportunities for pupils to apply and extend understanding and make links in their knowledge and capabilities.

However, as a school, you might decide that you need to refine the scheme for your own purposes and needs, meaning that not all units can be covered. This section aims to help you to do this whilst still being confident in curriculum coverage.

Firstly, use the colour coding to pick and choose units that cover the three strands of computing content to ensure a spread of complimentary opportunities and skills and to ensure curriculum coverage. Ideally, balance these strands over the whole school so that pupils cover and revisit all areas.

Secondly, look for opportunities to incorporate the computational skills into other subjects. Resources could be adapted or created to match your topics. Here are some suggestions:

Year 1 units that link to the maths curriculum:

- 1.2: Grouping and Sorting
- 1.3 Pictograms

Units that could easily be topic linked; resources will need to be adapted to have a topic theme:

Any of the data handling units suggested in the maths section.

- 1.6 Animated stories

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Year 1 Whole Year Overview

Predominant Area of Computing*		
	Computer Science	
	Information Technology	Digital Literacy

*Most units will include aspects of all strands.

It is recommended that you teach unit 1.1 first as it introduces Purple Mash. Except for unit 1.1, these units can be taught in any order to meet the needs of your wider curriculum.

<p>Unit 1.1 Online Safety & Exploring Purple Mash</p> <p>Number of lessons - 4</p> <p>Programs - Various</p>	<p>Unit 1.2 Grouping & Sorting</p> <p>Number of lessons - 2</p> <p>Programs - 2DIY</p>	<p>Unit 1.3 Pictograms</p> <p>Number of lessons - 3</p> <p>Programs - 2Count</p>
<p>Unit 1.4 Lego Builders</p> <p>Number of lessons - 3</p> <p>Programs - 2DIY</p>	<p>Unit 1.5 Maze Explorers</p> <p>Number of lessons - 3</p> <p>Programs - 2Go</p>	<p>Unit 1.6 Animated Story Books</p> <p>Number of lessons - 5</p> <p>Programs - 2Create A Story</p>
<p>Unit 1.7 Coding</p> <p>Number of lessons - 6</p> <p>Programs - 2Code</p>	<p>Unit 1.8 Spreadsheets</p> <p>Number of lessons - 3</p> <p>Programs - 2Calculate</p>	<p>Unit 1.9 Technology outside school</p> <p>Number of lessons - 2</p> <p>Programs - Various</p>

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Year 1 Unit Overview

Autumn 1

Unit 1.1 – Online Safety & Exploring Purple Mash

Lesson	Title	Success Criteria
1	Safe Logins	<ul style="list-style-type: none"> Children can log in to Purple Mash using their own login. Children have created their own avatar and understand why they are used. Children can add their name to a picture they created on the computer. Children are beginning to develop an understanding of ownership of work online. Children can save work into the My Work folder in Purple Mash and understand that this is a private saving space just for their work.
2	My Work Area	<ul style="list-style-type: none"> Children can find their saved work in the Online Work area of Purple Mash. Children can find messages that their teacher has left for them on Purple Mash. Children can search Purple Mash to find resources.
3	Purple Mash Topics	<ul style="list-style-type: none"> Children will be able to use the different types of topic templates in the Topics section confidently. Children will be confident with the functionality of the icons in the topic templates. Children will know how to use the different icons and writing cues to add pictures and text to their work.
4	Purple Mash Tools	<ul style="list-style-type: none"> Children have explored the Tools section on Purple Mash and become familiar with some of the key icons: Save, Print, Open and New. Children have explored the Games section and looked at Table Toons (2x tables). Children can log out of Purple Mash when they have finished using it and know why that is important.

Unit 1.2 – Grouping & Sorting

Lesson	Title	Success Criteria
1	Sorting Away from the Computer	<ul style="list-style-type: none"> Children can sort various items offline using a variety of criteria.

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2	Sorting on the Computer	<ul style="list-style-type: none">• Children have used Purple Mash activities to sort various items online using a variety of criteria.
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Autumn 2

Unit 1.3 - Pictograms

Lesson	Title	Success Criteria
1	Data in Pictures	<ul style="list-style-type: none"> Children can discuss and illustrate the transport used to travel to school. Children can contribute to the collection of class data. Children have used these illustrations to create a simple pictogram.
2	Class Pictogram	<ul style="list-style-type: none"> Children can contribute to a class pictogram. Children can discuss what the pictogram shows.
3	Recording Results	<ul style="list-style-type: none"> Children can collect data from rolling a die 20 times and recording the results. Children can represent the results as a pictogram.

Unit 1.4 – Lego Builders

Lesson	Title	Success Criteria
1	Following Instructions	<ul style="list-style-type: none"> Children know that to achieve the effect they want when building something, they need to follow accurate instructions. Children know that by following the instructions correctly, they will get the correct result. Children know that an algorithm is a precise, step-by-step set of instructions used to solve a problem or achieve an objective.
2	Following and Creating Simple Instructions on the Computer.	<ul style="list-style-type: none"> Children can follow instructions in a computer program. Children can explain the effect of carrying out a task with no instructions. Children know that computers need precise instructions to follow. Children know that an algorithm written for a computer to follow is called a program.
3	To consider how the order of instructions affects the result.	<ul style="list-style-type: none"> Children understand how the order in which the steps of a recipe are presented affects the outcome. Children can organise instructions for a simple recipe. Children know that correcting errors in an algorithm or program is called 'debugging'.

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Spring 1

Unit 1.6 – Animated Story Books

Lesson	Title	Success Criteria
1	Drawing and Creating	<ul style="list-style-type: none"> Children know the difference between a traditional book and an e-book. Children can use the different drawing tools to create a picture on the page. Children can add text to a page.
2	Animation	<ul style="list-style-type: none"> Children can open previously saved work. Children can add an animation to a page. Children can play the pages created. Children can save changes and overwrite the file.
3	Sounds and More!	<ul style="list-style-type: none"> Children can add a sound to the page. Children can add voice recording to the page. Children can create music for a page.
4	Making a Story	<ul style="list-style-type: none"> Children can add a background to the page. Children can use the additional drawing tools on My Story mode. Children can change the font style and size.
5	Copy and Paste	<ul style="list-style-type: none"> Children can use the copy and paste function to add more pages to their animated e-book.

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		<ul style="list-style-type: none"> Children can share their e-books on a class story book display board.
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Spring 2

Unit 1.7 – Coding

Lesson	Title	Success Criteria
1	Instructions	<ul style="list-style-type: none"> Children can give and follow instructions. Children can draw symbols to represent instructions. Children can arrange code blocks to create a set of instructions.
2	Objects and Actions	<ul style="list-style-type: none"> Children can create a program using code blocks. Children can use object and action code blocks.
3	Events	<ul style="list-style-type: none"> Children can create a simple program using code blocks. Children can use event, object and action code blocks.
4	When Code Executes	<ul style="list-style-type: none"> Children can create a simple program using code blocks. Children can use event, object and action code blocks. Children can notice when their code executes when their program is run.
5	Setting the Scene	<ul style="list-style-type: none"> Children can edit a scene by adding, deleting and moving objects. Children can change the size of objects using the properties table.
6	Using a Plan	<ul style="list-style-type: none"> Children can create a design plan for their Free Code Scene program. Children can use code to make the program they have designed work.

Summer 1

Unit 1.8 – Spreadsheets

Lesson	Title	Success Criteria
1	Introduction to Spreadsheets	<ul style="list-style-type: none"> Children can navigate around a spreadsheet. Children can explain what rows and columns are. Children can save and open sheets. Children can enter data into cells.
2	Adding Images to a Spreadsheet and Using the Image Toolbox	<ul style="list-style-type: none"> Children can open the Image toolbox and find and add clipart. Children can use the 'move cell' tool so that images can be dragged around the spreadsheet. Children can use the 'lock' tool to prevent changes to cells.
3	Using the 'Speak' and 'Count' Tools in 2Calculate to Count Items	<ul style="list-style-type: none"> Children can give images a value that the spreadsheet can use to count them. Children can add the count tool to count items. Children can add the speak tool so that the items are counted out loud. Children can use a spreadsheet to help work out a fair way to share items (Extension)

Unit 1.9 – Technology outside school

Lesson	Title	Success Criteria
1	What is Technology?	<ul style="list-style-type: none"> Children understand what is meant by 'technology'. Children have considered types of technology used in school and out of school.
2	Technology outside school.	<ul style="list-style-type: none"> Children have recorded 4 examples of where technology is used away from school.

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Summer 2

Unit 1.5 – Maze Explorers

Lesson	Title	Success Criteria
1	Challenges 1 and 2	<ul style="list-style-type: none"> • Children know how to use the direction keys in 2Go to move forwards, backwards, left and right. • Children know how to add a unit of measurement to the direction in 2Go Challenge 2. • Children know how to undo their last move. • Children know how to move their character back to the starting point.
2	Challenges 3 and 4	<ul style="list-style-type: none"> • Children can use diagonal direction keys to move the characters in the right direction. • Children know how to create a simple algorithm. • Children know how to debug their algorithm.
3	Challenges 5 and 6	<ul style="list-style-type: none"> • Children can use the additional direction keys to create a new algorithm. • Children can challenge themselves by using the longer algorithm to complete challenges.
4	Setting More Challenges	<ul style="list-style-type: none"> • Children can change the background images in their chosen challenge and save their new challenge. • Children have tried each other's challenges.

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English National Curriculum Objectives (Key Stage 1)

National Curriculum Objective	Strand	Units
Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Computer Science	1.2 1.4 1.5 1.7
Create and debug simple programs	Computer Science	1.5 1.7
Use logical reasoning to predict the behaviour of simple programs.	Computer Science	1.5 1.7
Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Information Technology	1.3 1.6 1.7 1.8
Recognise common uses of information technology beyond school	Digital Literacy	1.9
Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	Digital Literacy	1.1

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