

Computing Outcomes Portfolio



Year 3 - Autumn 2

Introduction to Spreadsheets using 2Calculate

Intent

This unit introduces the learners to spreadsheets. The main platform for this will be Purple Mash's 2Calculate. They will be supported in organising data into columns and rows to create their own data set.













Learners will be taught the importance of formatting data to support calculations, while also being introduced to formulas and will begin to understand how they can be used to produce calculated data.

Learners will be taught how to apply formulas that include a range of cells, and apply formulas to multiple cells by duplicating them. Learners will use spreadsheets to plan an event and answer questions.

Lesson 1: L.Q. How can spreadsheets be used to price objects?

Create your own version of the 'Shopping' Activity. Add your own images and set your own prices.
Work out the total using coins.

The screenshot shows a spreadsheet application window titled '2calculate 2simple'. The spreadsheet has a grid with the following data:

	53p							
	25p							
	10p							
			+		+		=	£0.53
					+		=	£0.25
							=	£0.10
								£0.88

The calculator interface on the right includes a numeric keypad (0-9, ., CE), arithmetic operators (+, -, ×, ÷), and a 'Set Image' section with coin icons (1p, 2p, 5p, 10p, 20p, 50p). A green arrow icon is visible at the bottom right of the spreadsheet grid.

Lesson 2: L.Q. How can spreadsheets be programmed to calculate simple variables?

Create your own version of the 'Animals' Activity. Add your own animals. Set your questions regarding variables.

The screenshot shows a spreadsheet application with a grid of animal icons. The application title is "2Calculate 2simple". The spreadsheet has a yellow cell with the following text: "Questions: How many animals are there? How many are grey? How many are brown? How many are multicoloured? How many mammals?". The grid contains various animal icons, including a yellow duck, a grey cat, a brown monkey, a grey mouse, a white sheep, and a grey cat. A blue box highlights the white cat icon. On the right side, there is a red calculator interface with a display showing the number 6. The calculator has buttons for numbers 1-9, 0, CE, and basic arithmetic operations (+, -, x, /). Below the calculator, there is a "Controls" section with various icons for navigation and editing.

Lesson 3: L.Q. What is the 'How Many' tool and how can it be used in 2Calculate?

Create your own version of the 'Counting Fish' Activity. Create your own pond. Add your own fish. Use the How Many tool.

The screenshot shows the 2Calculate software interface. The main window is titled "2Calculate 2simple v1.02". The interface is divided into several sections:

- Header:** A row of yellow cells containing the text "How many fish can you fit in your pond?".
- Grid:** A 10x10 grid of cells. The top row is yellow. The second row contains various fish and crab icons. The third row contains more fish icons. The fourth row contains a fish icon, a starfish icon, and a cell with the number "7" in a red box. The bottom four rows are blue and contain starfish icons. The rightmost column contains a calculator interface.
- Calculator:** A red calculator interface with a numeric keypad (0-9), a decimal point, a "CE" button, and basic arithmetic operators (+, -, *, /). Below the calculator is a "Controls" section with various icons for zooming, locking, and other functions.

Lesson 5: L.Q. How can cells be formulated in 2Calculate?

Create your own version of the '10, 20, 30' Activity. Select your own number of hands. Create your own wall. Formulate the cells.

The screenshot displays the 2Calculate software interface. The main workspace is a grid of cells. The top two rows are yellow, and the bottom two rows are white. A red horizontal bar separates the yellow and white sections. The bottom row of the white section contains a red cell with the number '40'. The grid contains several purple hand icons. A blue border highlights a cell in the third row, fifth column, which contains two purple hand icons. To the right of the grid is a calculator panel with a numeric keypad (0-9), a 'CE' button, and various mathematical operators. Below the calculator is a 'Controls' panel with various icons for navigation and editing. The top of the window shows a standard Windows taskbar with icons for file explorer, applications, and the 2Calculate software itself.