

What should I already know?

- Introduce 2Calculate · Spreadsheet navigation · Adding images · Vocab: cell, column, row
- What is data? · Representing data
- Copying and pasting · Totalling tools · Addition · Table layout · Block graph
- Ways to represent data · Pictograms (2Count) · Binary trees (2Question)
- Formula wizard · Cell formatting · Timer, random number and spin buttons · Budget planner sheet · Line graph
- Data representation in 2Graph · Use software to investigate data
- Formula wizard · Cell formatting · Timer, random number and spin buttons · Budget planner sheet · Line graph
- Use of 2Dos · Saving, opening and editing work · Sharing work · Copying and pasting · Mouse, keyboard and device skills

What will I know by the end of the unit?

- How can I use formulae within a spreadsheet to convert measurements of length and distance?
Children can create a formula in a spreadsheet to convert m to cm. · Children can apply this to creating a spreadsheet that converts miles to km and vice versa.
- How can I use the count tool to answer hypotheses about common letters in use?
Children can use a spreadsheet to work out which letters appear most often. · Children can use the 'how many' tool.
- How can I use a spreadsheet to model a real-life problem?
To use formulae to calculate area and perimeter of shapes. · Children can use a spreadsheet to work out the area and perimeter of rectangles. · Children can use these calculations to solve a real-life problem.
- How can I create formulae that use text variables?
Children can create simple formulae that use different variables. · Children can create a formula that will work out how many days there are in x number of weeks or years.
- How can I use a spreadsheet to help plan a school cake sale?
Children can use a spreadsheet to model a real-life situation and come up with solutions that can be practically applied

Key Vocabulary

- Rows** Boxes running horizontally in a spreadsheet.
- Data** A collection of information, especially facts or numbers, obtained by observation, questions or measurement to be analysed and used to help decision-making.
- Advance mode** A mode of 2Calculate in which the cells have references and can include formulae.
- Formula Wizard** The wizard guides you in creating a variety of formulae for a cell such as calculations, totals, averages, minimum and maximum for the selected cells.
- Spreadsheet** A computer program that represents data in cells in a grid of rows and columns. Any cell in the grid may contain either data or a formula that describes the value to be inserted based on the values in other cells.
- Variable** Used in computing to keep track of things that can change while a program is running.
- Columns** Boxes running vertically in a spreadsheet.
- Formula** A group of letters, numbers, or other symbols which represents a scientific or mathematical rule. The plural of formula is formulae.
- Formula Bar** An area of the spreadsheet into which formulae can be entered using the '=' sign to open the formula.
- Totalling tool** Adds up the value of every cell above it, next to it or diagonal to it according to which total tool is selected.
- Format** The way that text looks. Formatting cells is helpful for interpreting a cell's contents for example you might want to format a cell to show a fraction e.g. $\frac{4}{5}$ or include units such as £ or \$.
- 'How Many?' Tool** Counts how many of a variable there are in a spreadsheet.

Key Questions

- How would you add a formula so that the cell shows the product of two other cells?
Click on the cell where you want the product to be displayed then click the formula wizard button. Click on the cell that contains the first number. Choose the \times operation then click on the second number. Click OK
- What would you use in 2Calculate to have a cell that automatically calculates the number of days since a certain date?
You could use formulae and the totalling tools. To make the spreadsheet easier to understand, you could use named variables.
- Explain what a spreadsheet model of a real-life situation is and what it can be used for?
It represents the data of a situation for example: Budgeting for a party; working out how big a field needs to be for a certain number of animals; working out how to spend your pocket money over time. Using the existing data to predict what time your shadow will be a certain length etc.

Purple Mash Resources

- 2 Calculate



2Calculate

