What should I already know?

- Introduce 2 Calculate. Spreadsheet navigation. Adding images.
- What is data? Representing data.
- Copying and pasting. Totalling tools. Addition. Table layout. Block graph
- Ways to represent data. Pictograms (2Count). Binary trees (2Question). Databases (2Investigate).
- Pie charts and Bar graphs. Boolean comparison tools (<=>). Spin tool. Advanced mode. Cell refer-
- Data representation in 2Graph. Use software to investigate data.
- Converting measures. Count tool. Formulae. Variables in formulae. Event planning.
- Data representation in 2Investigate... Creating and interrogating data. Use of filter, sort and search.
- Spreadsheets for computational models · Probability using random functionality · Budgeting · Event
- 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?

What is a Spreadsheet?

You know some uses of a spreadsheet tool. You will navigate around a spreadsheet using cell references. You will enter data into cells. You understand new vocabulary relating to spreadsheets cells, columns, rows, cell names, sheets, workbook

How do I use some basic data formulae in Excel?

You will use a spreadshee't to carry out basic calculations including addition, subtraction, multipli-cation and division formulae. You will use the series till function. You recognise how using formulae allows the data to change and the calculations to update automatically.

How will I use a spreadsheet to model a situation?

You will use a spreadsheet to model a situation. You will use a spreadsheet to solve a problem. You will use the SUM function

How will I demonstrate how Excel will make complex data clear by manipulating the way it is presented?

 \cdot You will use a variety of methods including flash fill, convert text to tables and splitting cells for organising and presenting their data in a spreadsheet. You know what is meant by a delimiter. You understand how to sort data.

How do I use advanced Formulae and Big Data?

You know how to incorporate formulae for percentages, averages, max and min into their spread-sheets. You gain familiarity with range hotation. You know some shortcuts that help to make data meaningful. You begin to develop a critical eye when it comes to the conclusions that will be made from data.

How will I create a variety of graphs in Excel?

· You know that there are ways to represent their data graphically and that spreadsheets will make the process of representing data easier You gain an understanding of how a graphical representation will make data easier to interpret. You make a variety of charls using Sheets. · You illustrate their data using sparklines and data bars

How will I use a Spreadsheet to Plan a Cake Sale?

You will understand how a spreadsheet will be used to plan an event. You understand the advantages of using formulae when data is subject to change. You have modelled a real-life situation using a spreadsheet

How can I use a Spreadsheet to Solve Problems?

To apply all new spreadsheet skills to solving problems and presenting data. To explore printing spreadsheets.









- Auto fit A function of a spreadsheet that alters column widths to fit data.
- Row Horizontal, numbered reference points for the cells in a spreadsheet.
- Column Vertical, lettered reference points for the cells in a spreadsheet.
- Cell An individual section of a spreadsheet grid. It contains data or calculations.
- Cell Reference Each cell has a cell reference that shows its position. The cell reference is displayed in the box on the top left

Key Vocabulary

- Chart (not on tablet version). A diagram that represents data. Charts include graphs and other diagrams such as pie charts or flowcharts.
- Conditional formatting When a cell or cells are formatted in a specific way depending upon the values in the cell or cells.
- Data A collection of information, especially facts or numbers, obtained by observation, questions or measurement to be analysed and used to help decision-making.
- Delimiter A character that separates each piece of data.
- Formula(e) A group of letters, numbers, or other symbols which represent a mathematical rule. It allows a spreadsheet to carry out calculations.
- Formula Bar An area of the spreadsheet into which formulae can be entered using the '=' sign to open the formula.
- Graph A diagram that represents data there are specific layouts for graphs including bar graphs and line graphs.
- $Range\ A$ collection of selected cells: all the numbers you want to appear in a calculation. For example, Al:Al2 includes all the cells from Al to Al2.
- Computational Model Creating or using a simulation (a model) of a real-life situation, on a
- Horizontal axis. The x-axis of a graph is called the horizontal axis.
- **Spreadsheet** A software tool used for organising information and performing calculations on the data. A spreadsheet workbook file is organised into sheets.
- Text Wrapping This displays the cells contents on multiple lines rather than one long line, allowing all the contents to be shown.
- Vertical axis The y-axis of a graph is called the vertical axis

Key Questions

What is a spreadsheet used for?

Spreadsheets are used to display, organise and interpret information. They are easy to manipulate and carry out useful calculations quickly

How do you carry out a multiplication calculation?

Within the formula bar for the cell, you will need to write = then the cells you want to multiply using the operator *. For example, = AI*BI will show the answer of AI multiplied by BI. You can change the contents of AI or BI and this will change your answer.

How does using the SUM function save time?

Using the SUM function allows you to add together the total of many cells without having to write them

Purple Mash Resources

Microsoft Excel

