

Computing



















Unit 6.3 - Spreadsheets

Year 6

Key Learning

- To use a spreadsheet to investigate the probability of the results of throwing many dice.
- Using the formula wizard to add a formula to a cell to automatically make a calculation in that cell.
- To create graphs showing the data collected.
- To type in a formula for a cell to automatically make a calculation in that cell.
- Using a spreadsheet to create computational models and answer questions.

Key Images

Open the main menu					
Save your work					
Open a previously saved file					
Increase or decrease spreadsheet size					
Advanced mode					
Formula wizard					
Format cell toolbox					
Charts					
Totals toolbox					
Image Tools					
Controls Toolbox					
Move		Dice			
Equals		Count			
To copy		To cut		To paste	

Key Vocabulary

Average	Symbols used to represent comparing two values
Advance mode	A mode of 2Calculate in which the cells have references and can include formulae.
Copy and Paste	A way to copy information from the screen into the computer's memory and paste it elsewhere without re-typing.
Columns	Vertical reference points for the cells in a spreadsheet.
Cells	An individual section of a spreadsheet grid. It contains data or calculations.
Charts	Use this button to create a variety of graph types for the data in the spreadsheet.
Count (how many) tool	Counts the number of whatever value object is in the cell to its immediate left and puts the answer in the cell to its immediate right.
Dice	When clicked, this will simulate a dice roll by switching to one of the faces of a die.
Equals tool	Tests whether the entered calculation in the cells to the left of the tool has the correct answer in the cell to the right of the tool.
Formula	Use the formula wizard or type into the formula bar to create a formula in a cell, this will calculate the value for the cells based upon the value of other cells in the spreadsheet.
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.
Move cell tool	This tool makes a cell's contents moveable by drag-and-drop methods.
Random tool	Click to give a random value between 0 and 9 to the cell.
Rows	Vertical reference points for the cells in a spreadsheet.
Spin Tool	Adds or subtracts 1 from the value of the cell to its right.
Spreadsheet	A computer program that represents information 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.
Timer	When placed in the spreadsheet, click the timer to adds 1 to the value of the cell to its right every second until it is clicked again.

Key Questions

How would you add a formula so that the cell shows the total of a column of cells?	Use the formula wizard advanced total tool or type a formula into the cell by using the '=' symbol, mathematical operators and cell references.
What is a computational model and what it can be used for?	Modelling in Computing means creating or using a simulation (a model) of a real-life situation, on a computer. 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 the best price for an item or using the existing data to predict what time your shadow will be a certain length.
If you were going to use a spreadsheet to plan your dream holiday. What data would you collect to cost the trip?	Ideas could include: Include travel; comparing the cost of different methods, airports, airlines, different companies and discounts such as rail cards. Cost of accommodation of different types, trips out, food, passports, immunisations.