

Unit: 6.3 – Spreadsheets

Key Learning

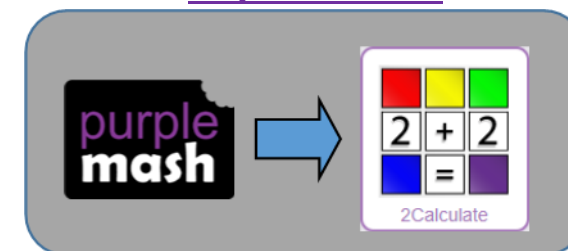
To use a spreadsheet to investigate the probability of the results of throwing many dice.

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 ResourcesKey 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.

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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	
Equals	
Dice	
Count	
To copy	
To cut	
To paste	

Key Questions

How would you add a formula so that the cell shows the total of a column of cells?

What is a computational model and what it can be used for?

If you were going to use a spreadsheet to plan your dream holiday. What data would you collect to cost the trip?

Use the formula wizard advanced total tool or type a formula into the cell by using the '=' symbol, mathematical operators and cell references.

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.

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.