

Knowledge Organiser

Unit 3 – Spreadsheets

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Summary

In computing, modelling is used to look at large amounts of data to help with scientific or engineering projects. A computer model is a representation of a real-life system or situation, such as the workings of a nuclear reactor or the evacuation of a football stadium.

Simple models can be built in a spreadsheet. A spreadsheet model could be used to plan a school prom. To make sure it came in on budget the spending on food, drinks, entertainment, and the price of tickets could be varied.

A spreadsheet can be used as a modelling tool. The model is controlled by a set of rules introduced by formulae. These rules can be changed easily to vary the model and, for example, provide information about running costs and profit margins.

Spreadsheets are used to store information and data. Once you have your information in a spreadsheet you can run powerful calculations and make charts.

Advantages of using Spreadsheets:

- ...
- ...
- ...
- ...

Key Words

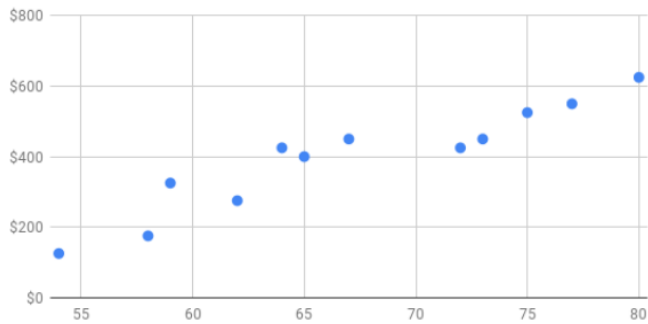
Axis labels	
Cell	
Cell reference	
Column	
Computer model	
Data	
Field	
Format	
Formula	
Function	
Record	
Row	
Spreadsheet	

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Formula	Explanation
=A7+B7	This will add the data in cell A7 with the data in cell B7.
	This will subtract the data in cell J1 from the data in cell D4.
	This will multiply the data in cell C5 with the data in cell I9.
=E6/T7	
=SUM(F4:F12)	
	This will work out the average of the data between cells H2 and R2.
=MAX(A6:A34)	
	This will look at cells C4 to K4 and display the minimum value across the range.

Charts

Scatter Graph



Pie Chart

