Graphing Activities

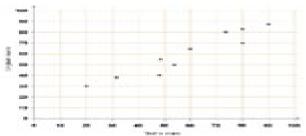
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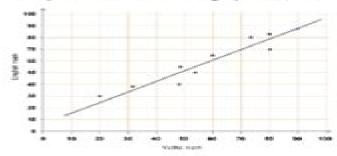
Introduction

It is very important to realise why scientists use graphs to show their data. Most people use graphs to show what the data "looks like" and this generally make data very easy to understand. Bar graphs, column graphs, and pie graphs are very useful for doing this. These sort of graphs are really just a picture of the data and a lot of people like them because they do actually make the data easy to understand. However, generally speaking, scientists don't use these types of graphs – because scientists expect you to read the data in tables and not need a pie graph or bar graph to see the patterns.

The main type of graph used by scientists is officially called a scatter graph with a trend line, but commonly called a trend line graph. You can easily a scatter graph because the data is shown as a series of dots or crosses. See the example of the right – this is a scatter graph without a trend line.

The scatter graph allows scientists to draw a trend line – a line which represents the pattern shown by the data. The example below is the same graph but with a trend line





shown. A trend line is either a straight or a curved line drawn that most accurately describes the trend in the scatter graph. The trend line is very important to scientists. Scientists use the trend line to make predictions and explanations. The trend line is really a mathematical relationship between the variable on the X axis and the variable on the Y axis — and it is this mathematical relationship that scientists determine by drawing and analysing a trend line graph.

A trend line graph must be carefully constructed to accurately depict the data collected. An incorrect or poorly constructed graph often leads to the acceptance of an incorrect relationship or detract from the acceptance of a correct relationship.

The graph should contain 5 major parts: the title, the independent variable, the dependent variable, the scale for each variable, a trend line, and a legend (if there is more than one set of data/line).

- The title: this shows what the graph is about. Reading the title should give the reader an idea about the graph. It should be a concise statement placed above the graph.
- The Independent Variable: this is the variable in the experiment that has been deliberately
 changed by you (the variable you are investigating). This variable should be placed on the
 horizontal or x-axis.

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