

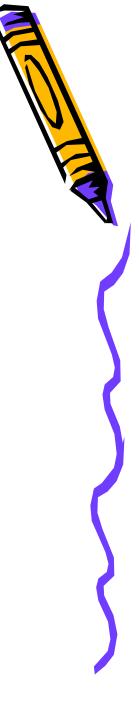
A COL

Bar Graphs

• Numbers up the side

Words along the bottom

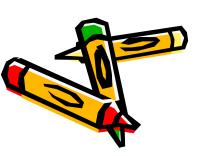
 Labels up side & along the bottom



Line Graphs

 Numbers go up the side & along the bottom

 Side and base of graph need to be labelled

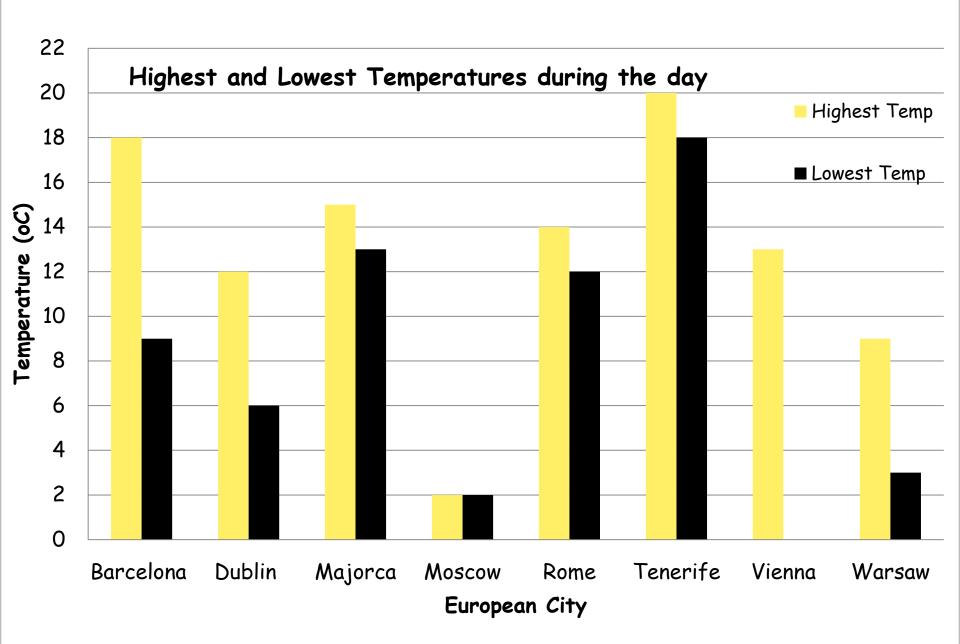


Bar Graph - Example

- Place
- Barcelona
- Dublin
- Majorca
- Moscow
- Rome
- Tenerife



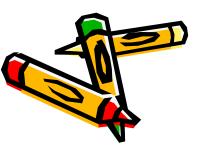
Lowest Temp (°C) 6 13 2 12 18 ()3



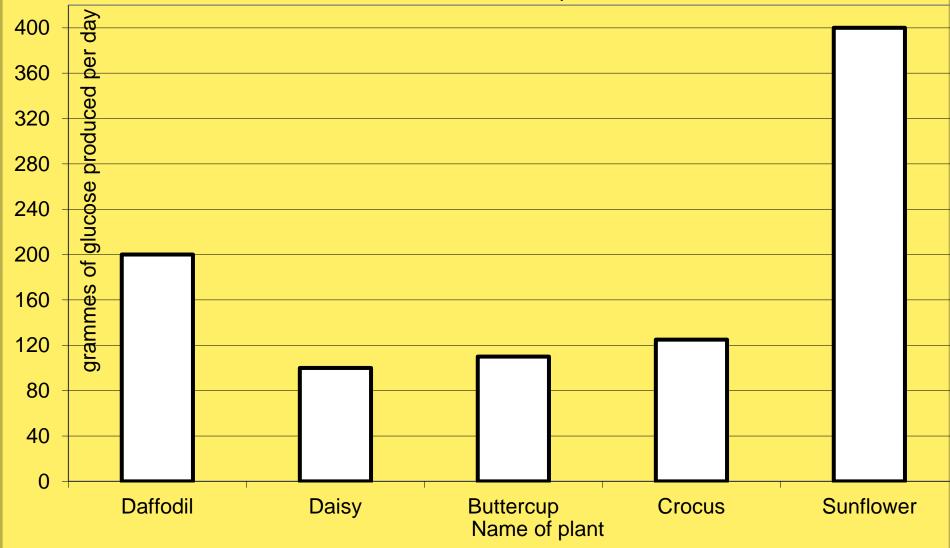
Graph Work

The table below shows the number of grams of glucose produced by different plants in one day.

Plants	Grammes of glucose produced in one day
Daffodil	200
Daisy	100
Buttercup	110
Crocus	125
Sunflower	400

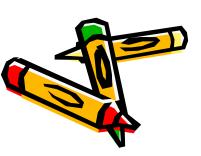


A graph to find the difference between the glucose produced by different plants



How to draw line graphs

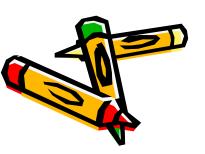
- Line graphs are used to show information more clearly than a simple results table.
- Line graphs compare information that is similar, e.g. time.
- You can not use line graphs to compare information that is very different, e.g. eye colours.



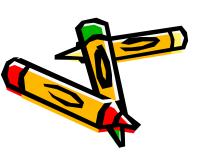
Dependant variable goes along the vertical (y - axis) 2.0 1.5 1.0 0.5 0 1.0 0.5 1.5 2.0 Don't draw in the coloured lines use these to find where to put the small cross.

Life pendent variable goes along the contal (x - axis)

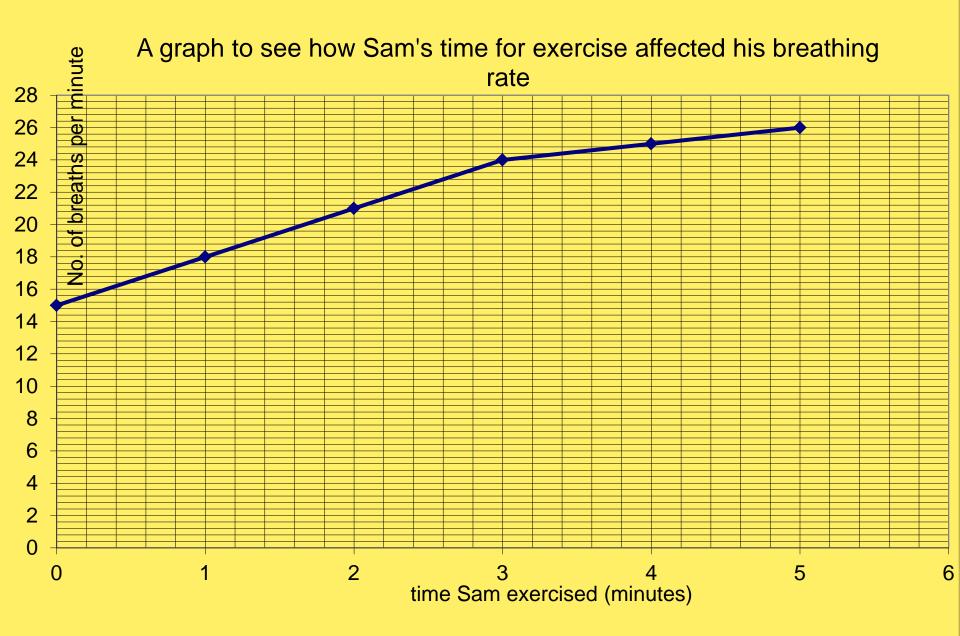
Remember to <u>ALWAYS</u> write a title and labels on the axes (including units).



Time Sam exercised	No. of breaths per minute
(minutes)	
0	15
1	18
2	21
3	24
4	25
5	26



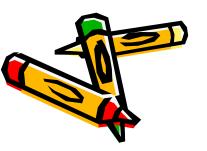




Line Graph - Example

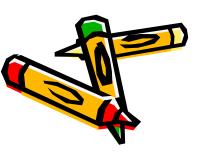
 Use your temperature readings from your Cooling Down experiment to draw a line graph

 Use graph paper with the scale already drawn



Cooling Down

- When is cooling fastest & when is it slowest?
- Read P40 of Science in View
- Write & underline the heading
- Answer all 4 questions



<u>Success in Science -</u> Drawing a Line Graph

A. Label the axes, remembering the units.

*Input Variable - Goes on the x axis (horizontal)

*Outcome Variable - Goes on the y axis (vertical)

B. Choose a scale for each variable that uses the MOST of the available space. <u>Success in Science -</u> Drawing a Line Graph

C. Plot the points with a small (but <u>visible</u>) dot or cross.

D. Draw a line or a curve that best fits the data points. Most graphs of experimental data are <u>not</u> drawn as "join-the-dots".

E. Give your graph a title.

<u>Success in Science -</u> Drawing a Line Graph

 When marking a graph, write down the letter(s) from the above list to show what needs to be fixed.

