

S2 skills homework – September – Graphs

How to do Bar Graphs

1. Work out a FAIR scale for the y-axis
2. Label it
3. Work out how large your bars can be and draw out your x-axis
4. Label it
5. Plot height of all the bars and draw them in

How to do Line graphs

1. Work out what are the RESULTS – This is the y-axis
2. Work out a FAIR scale for the y-axis
3. Label it
4. Work out a fair scale for the x-axis
5. Label it
6. Plot the points

1. The table shows a sample of organisms that live in and around a small pond.

Organism	Population
Pond Frog	4
Water Boatman	16
Pond Skater	8
Damselfly	5
Water Flea	31

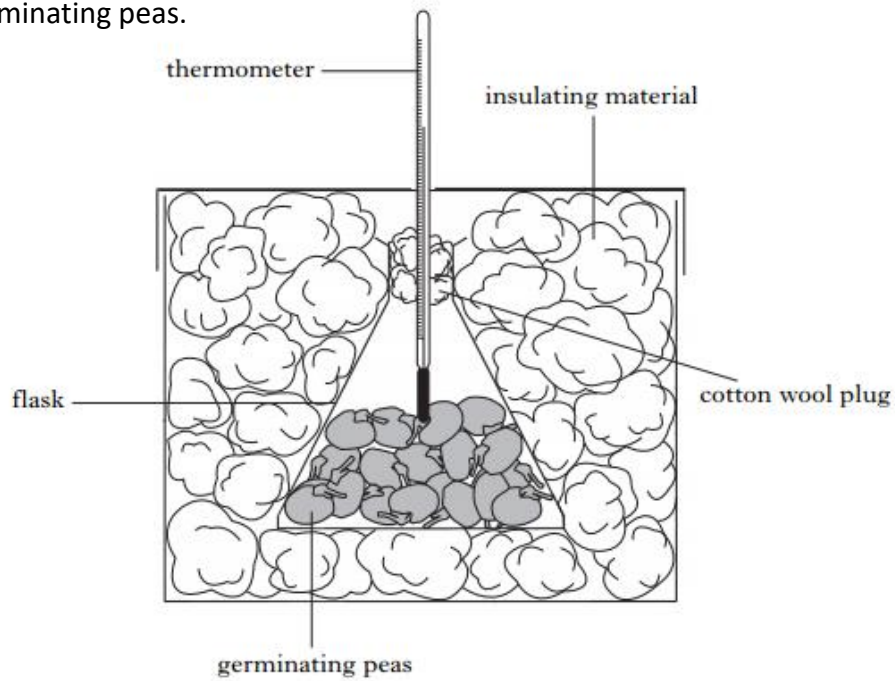
Draw a Bar graph of these results

2. The number of absent pupils from S1 to S6 were tracked for one day and recorded in a table. The results are shown below.

Year Group	Number of pupils absent
S1	19
S2	21
S3	12
S4	14
S5	8
S6	7

Plot this information on a bar chart

3. The diagram below shows apparatus used to investigate heat production from germinating peas.



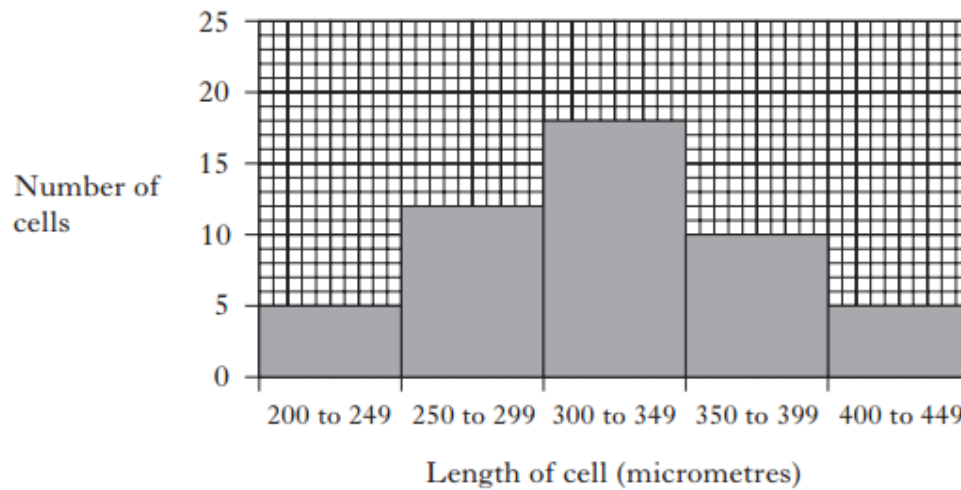
The results of the investigation are shown below

<i>Time</i> (days)	<i>Rise in temperature</i> (°C)
0	0·0
1	0·2
2	2·0
3	4·0
4	5·0
5	5·4
6	5·6
7	5·6

Plot the results on a line graph (use the handy hints in the box at the start of this homework to help!).

4. A piece of onion cell was examined using a microscope and the lengths of 50 cells were measured.

The bar chart below shows the number of cells of different lengths which were found



- a. Which range of cell lengths contained the most cells?
b. How many cells had a length between 200 and 299 micrometres?