

## FREE STANDING MATHS UNIT

Making Sense of Data unit Foundation level

### Investigating a Change of State: Melting and Freezing points.

Describe briefly what the experiment that you carried out in physics involved then using the results from your experiment draw a graph. Examine the graph and explain what is happening during the experiment.

<b>Your Coursework Portfolio must include:</b>	<b>You should show all your calculations and:</b>
<p><b>1 (part)</b> Two tables of data that you have drawn up arising from two different situations</p> <p>One of your tables should be drawn using a spreadsheet, the other by hand.</p>	<ul style="list-style-type: none"> <li>• select which data to put in your table</li> <li>• decide on the table headings to use</li> <li>• complete your table accurately using <i>all relevant</i> data</li> <li>• use methods of checking to make sure that you have included all data</li> </ul>
<p><b>3 (part)</b> A graph of data pairs and a brief written description of the graph.</p> <p>Your graph should be drawn by hand.</p>	<p>for your graph:</p> <ul style="list-style-type: none"> <li>• select the data you need</li> <li>• present the data in a table</li> <li>• choose the graph's axes (and scale these if not using a spreadsheet)</li> <li>• plot the points accurately</li> </ul> <p>for your written description explain what :</p> <ul style="list-style-type: none"> <li>• the intercepts with the graph's axes</li> <li>• the gradient</li> <li>• the general shape</li> </ul> <p>tell you about the real situation.</p>



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#### Data for Melting point of wax.

Results from the experiments of three students.  
This data can be used for practice.

Time (mins)	Temp °C
0	83
2	70
4	61
6	55
8	54
10	53
12	52
14	52
16	51
18	50
20	49
22	48
24	47
26	45
28	44
30	42

Time (mins)	Temp °C
0	62
2	55
4	52
6	51
8	50
10	48
12	47
14	47
16	46
18	44
20	43
22	42
24	40
26	38
28	37
30	38

Time (mins)	Temp °C
0	74
2	63
4	57
6	54
8	53
10	52
12	52
14	51
16	50
18	50
20	48
22	47
24	46
26	45
28	43
30	42
32	40
34	39

