Name _____ **Date** _____

Worksheet 2.1.1

Materials: properties and changes

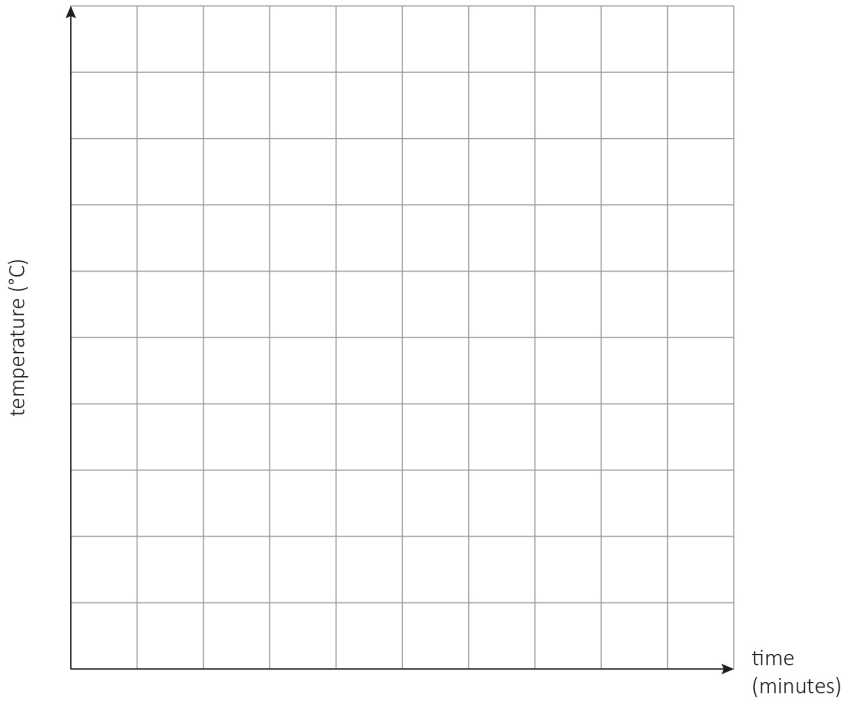
Class 6 melted ice in a saucer and measured its temperature. These are their results.

Time (minutes)	0	2	4	6	8	10	12	14
Temperature (ºC)	-6	-4	-2	0	0	0	2	4

1 a What kind of graph would you draw to show these results?

_____

b Draw the graph.



2 a Which temperature is the melting point of ice?

_____

b Do any other substances melt at this temperature? Say why or why not.

_____

_____

c Why does the ice on the saucer melt? Use the particle model to explain your answer.

_____

_____

_____

_____

Help sheet

We use bar graphs to compare things between different groups or objects, for example, the melting points of different solids.

We draw line graphs to track changes over short and long periods of time. For example, measuring the change in temperature of water over time as we heat the water. Line graphs can also be used to compare changes over the same period of time for more than one group. For example, comparing the time it takes for different quantities of water to heat up to boiling point.

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Stretch questions

3 a For how long does the does the temperature stay the same?

_____

b Suggest a reason for this.

_____

_____

4 a Predict the water temperature after 20 minutes.

_____

b Show how you obtained your prediction by drawing onto the graph.