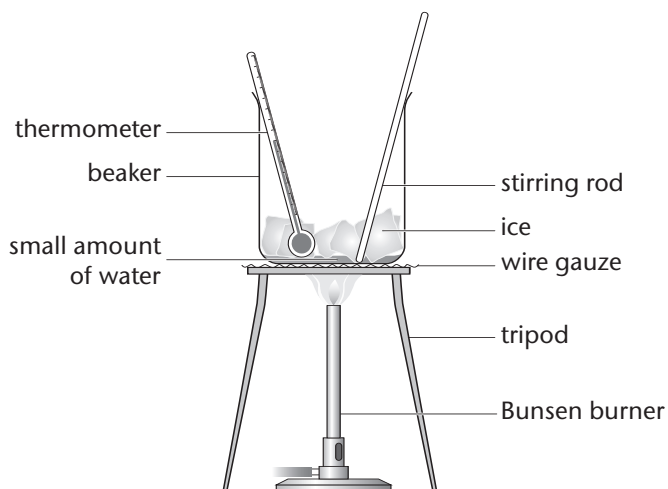




Extended answer tasks

Heating ice

A science class was doing an experiment to observe temperature changes when heating ice. Each group started the experiment with four cubes of ice and a small amount of water in a beaker. They heated the beaker, with constant stirring, over a low Bunsen burner flame as shown in the diagram below. They measured the temperature every minute and recorded the results in a table.



One group of students obtained the following results.

Time (in minutes)	0	1	2	3	4	5	6	7	8	9
Temperature (in °C)	1	1	1	4	15	29	45	61	75	89

- a) Using the information from the result table, describe what was happening in the first 9 minutes of the experiment.

- b) Using your knowledge of the particle theory, explain why this happens.

