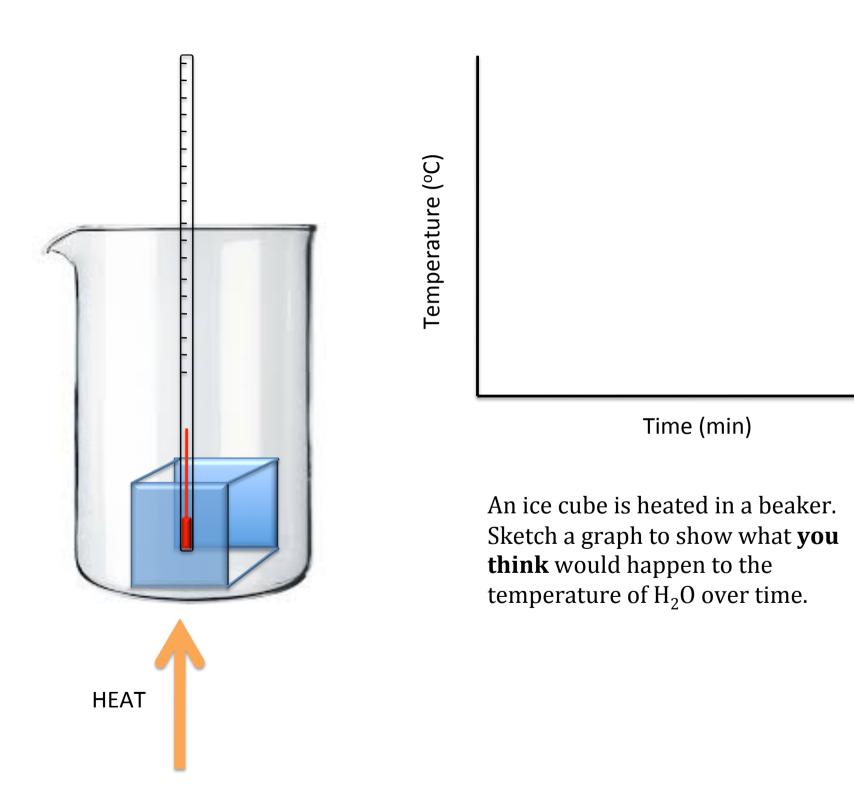
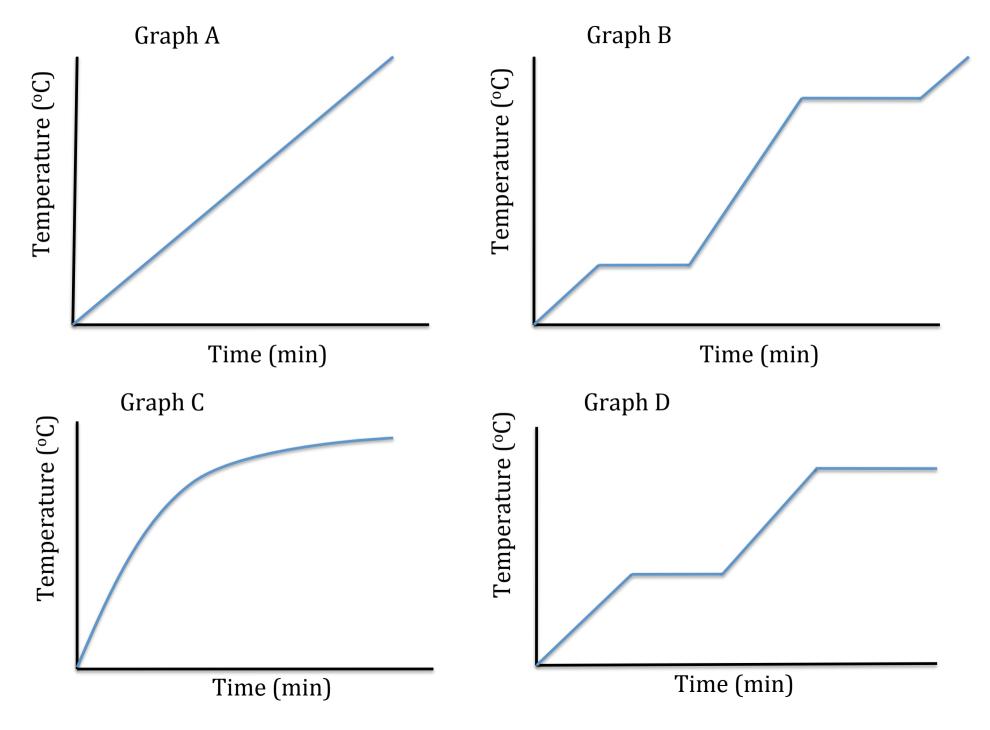
Topic	Heating curves	Level	Key Stage 3 (or any course for students aged 11-16)
Outcomes	 To make a prediction about what would happen to the temperature of an ice cube as we heat it To be able to draw a heating curve for water To understand why the temperature of a substance does not change during a state change 		



In pairs, discuss which graph best describes the change in temperature of the H₂O.



Questions to think about

- 1. Why does the temperature of a substance not change when it is changing state?
- 2. The melting temperature of H_2O is 0 °C. The freezing temperature of H_2O is 0 °C. At 0 °C is H_2O a solid or a liquid?
- 3. Does water refer to $H_2O_{(1)}$ only, or is ice water too?