



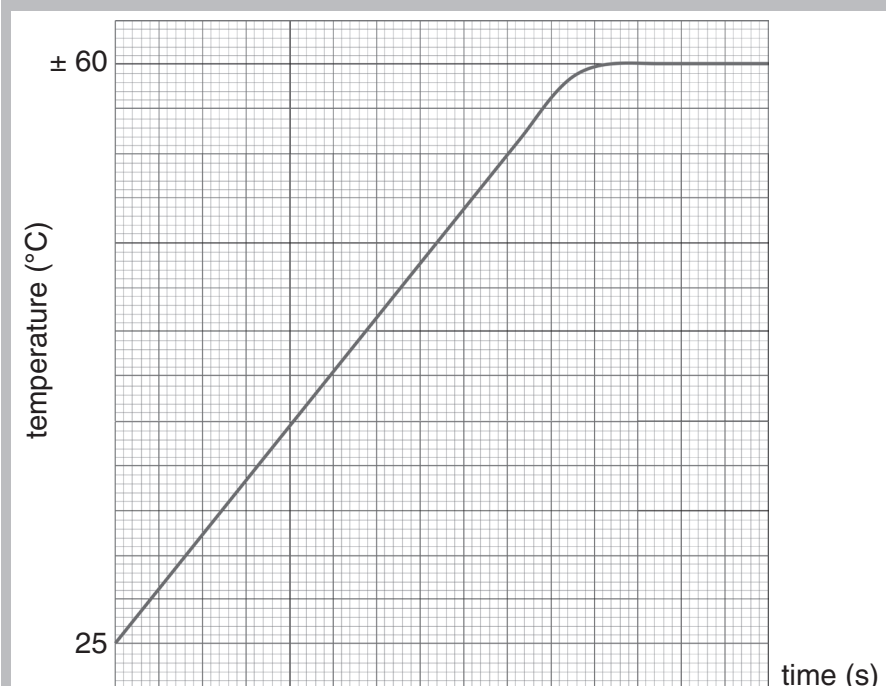
Experiment 16: Page 300

Aim: To measure the melting point of candle wax.

Results:

Time (s)	Temperature (°C)	Time (s)	Temperature (°C)
0		180	
30		210	
60		240	
90		270	
120		300	
150			

1. What is the temperature at which candle wax melts?
± 60°C (depending on the type of wax)
2. Draw a graph of the results you obtained.



3. Why do we use a water bath to heat the candle wax?
Candle wax is flammable and should therefore not be heated directly. The boiling point of water is higher than the melting point of candle wax which means that temperatures that are high enough to melt the candle wax can be reached using a water bath.

Conclusion:

1. What is the melting point of the candle wax?
± 60°C (depending on the type of wax)