

Thermal physics

Specification reference	Checklist questions	
5.1.1 a	Can you describe thermal equilibrium?	<input type="checkbox"/>
5.1.1 b	Can you explain the absolute scale of temperature?	<input type="checkbox"/>
5.1.1 c	Can you state temperature measurements in degrees Celsius and kelvin?	<input type="checkbox"/>
5.1.1 d	Can you calculate $T(\text{K}) \approx \theta(^{\circ}\text{C}) + 273$?	<input type="checkbox"/>
5.1.2 a	Can you describe solids, liquids, and gases in terms of spacing, ordering, and motion of atoms or molecules?	<input type="checkbox"/>
5.1.2 b	Can you describe the simple kinetic model?	<input type="checkbox"/>
5.1.2 c	Can you explain Brownian motion?	<input type="checkbox"/>
5.1.2 d	Can you explain internal energy as the sum of kinetic and potential energies in a system?	<input type="checkbox"/>
5.1.2 e	Can you describe absolute zero (0 K)?	<input type="checkbox"/>
5.1.2 f	Can you explain increase in internal energy with temperature?	<input type="checkbox"/>
5.1.2 g	Can you describe changes in internal energy during changes of phase?	<input type="checkbox"/>
5.1.2 g	Can you explain constancy of temperature during changes of phase?	<input type="checkbox"/>
5.1.3 a	Can you calculate the specific heat capacity of a substance – $E = mc\Delta\theta$?	<input type="checkbox"/>
5.1.3 b i	Can you describe an electrical experiment to determine the specific heat	<input type="checkbox"/>

Specification reference	Checklist questions	
	capacity of a metal or a liquid?	
5.1.3 c	Can you calculate specific latent heat of fusion and specific latent heat of vaporisation; $E = mL$?	<input type="checkbox"/>
5.1.3 d i	Can you describe an electrical experiment to determine the specific latent heat of fusion and vaporisation?	<input type="checkbox"/>