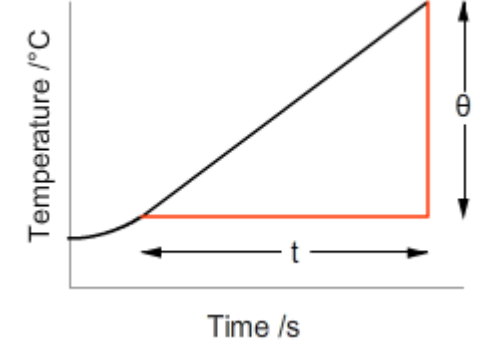
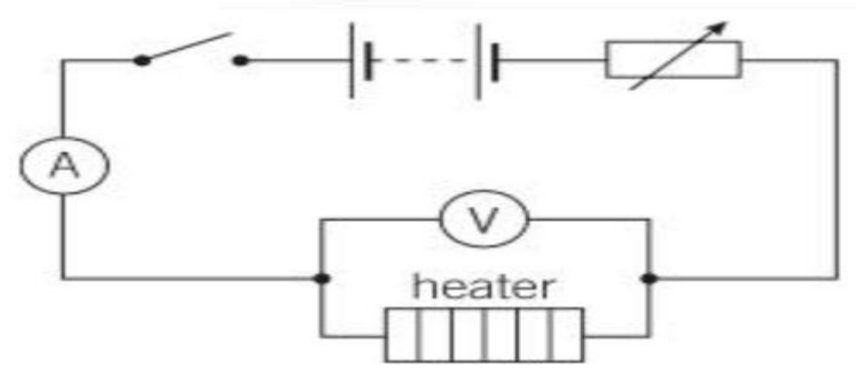
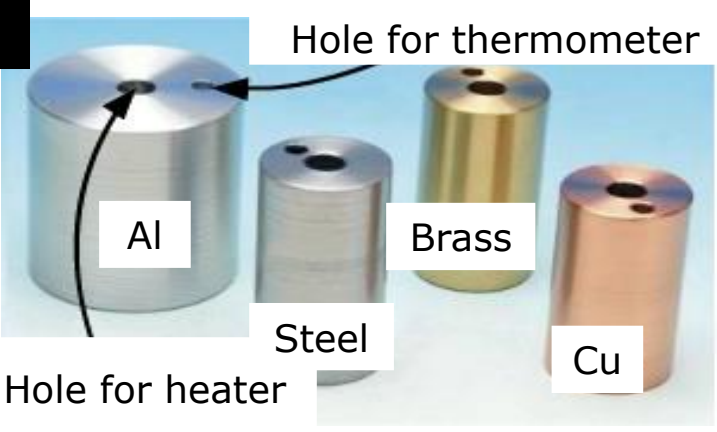
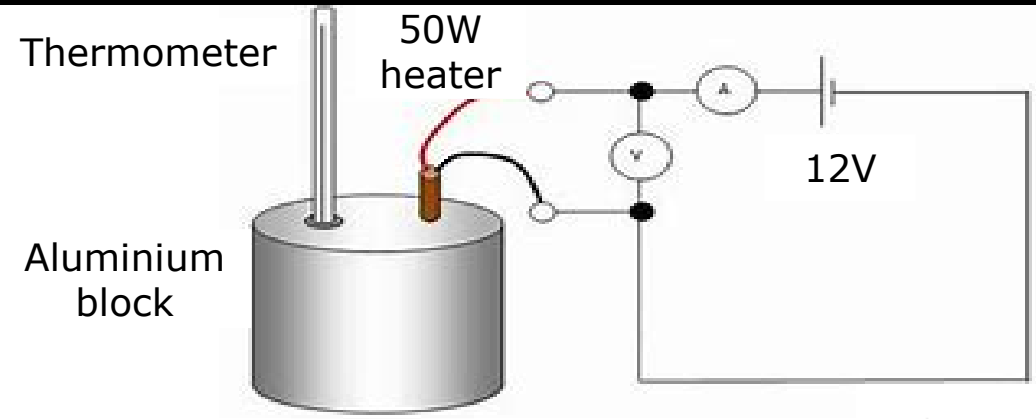


# Physics Topic P2: Specific heat capacity.

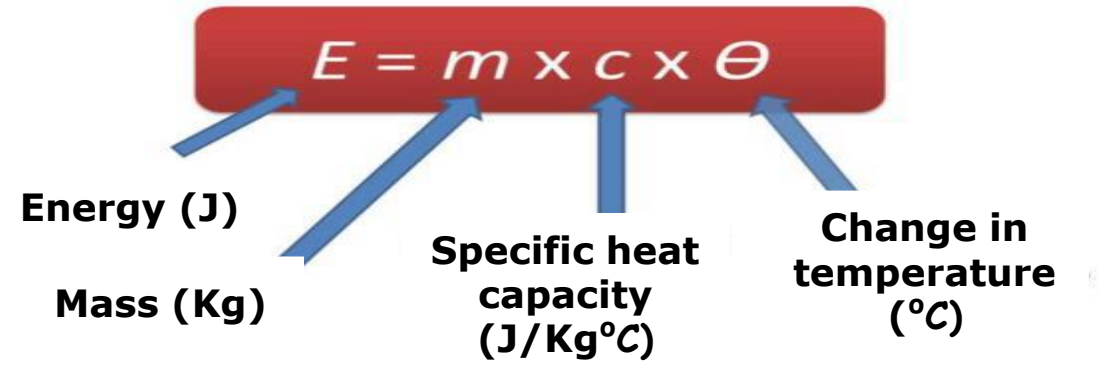


Power of the heater	
Power = current x potential difference	$P = IV$
Work done	
Work done = power x time	$E = P \times T$
Specific heat capacity	

1. Calculate the power of the heater
2. Calculate the work done in the system
3. Plot a graph of temperature against time
4. Find the gradient of the line
5. Specific heat capacity is 1/gradient

$$E = m \times c \times \theta$$

**Specific heat capacity**  
The amount of energy needed to raise the temperature of 1kg of a material by 1 °C.



Specific heat capacity	The amount of energy needed to raise the temperature of 1kg of a material by 1 °C.
Delta OR $\Delta$	Change in...
Delta theta or $\Delta\theta$	Change in temperature