Question Number	Answer		Mark
12	Use of $\Delta E = mc\Delta\theta$	(1)	
	Use of $P = \frac{\Delta E}{\Delta t}$	(1)	
	Use of $\Delta E = mL$	(1)	
	$m = 0.189$ kg	(1)	**4**
	Example of calculation		
	$P = \dfrac{0.855 \text{ kg} \times 4190 \text{ J kg}^{-1} \text{ K}^{-1} \times (100 - 21.5) \text{ K}}{115 \text{ s}} = 2.45 \times 10^3 \text{ W}$		
	$2.45 \times 10^3 \text{W} \times 175 \text{ s} = m \times 2.26 \times 10^6 \text{ J kg}^{-1}$		
	$\therefore m = \dfrac{2.45 \times 10^3 \text{W} \times 175 \text{ s}}{2.26 \times 10^6 \text{ J kg}^{-1}} = 0.189 \text{ kg}$		
	Total for question 12		**4**