

2 The unit of specific heat capacity is $\text{J kg}^{-1} \text{K}^{-1}$.

What is its equivalent in terms of SI base units?

- A** $\text{kg}^{-1} \text{m}^2 \text{K}^{-1}$ **B** $\text{m s}^{-1} \text{K}^{-1}$ **C** $\text{m s}^{-2} \text{K}^{-1}$ **D** $\text{m}^2 \text{s}^{-2} \text{K}^{-1}$

3 What is the vertical component of this displacement vector?