

- 2** The average kinetic energy E of a gas molecule is given by the equation

$$E = \frac{3}{2} kT$$

where T is the absolute (kelvin) temperature.

What are the SI base units of k ?

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