2 The unit of work, the joule, may be defined as the work done when the point of application of a force of 1 newton is moved a distance of 1 metre in the direction of the force.

Express the joule in terms of the base units of mass, length and time, the kg, m and s.

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