

- 6 The SI unit for potential difference (the volt) is given, in base units, by
- A $\text{kg m A}^{-1} \text{s}^{-3}$.
 - B $\text{m}^2 \text{A}^{-1} \text{s}^{-2}$.
 - C $\text{kg m}^2 \text{s}^{-2}$.
 - D $\text{kg m}^2 \text{A}^{-1} \text{s}^{-3}$.
- 7 An ion is accelerated by a series of electrodes in a vacuum. A graph of the power supplied to the ion is plotted against time.
- What is represented by the area under the graph between two times?
- A the change in kinetic energy of the ion
 - B the average force on the ion
 - C the change in momentum of the ion
 - D the change in velocity of the ion

Space for working