

1 Which quantity can be measured in electronvolts (eV)?

- A electric charge
- B electric potential
- C energy
- D power

2 What is the ratio  $\frac{10^{-3} \text{ THz}}{10^3 \text{ kHz}}$  ?

- A  $10^{-9}$                       B  $10^{-6}$                       C  $10^0$                       D  $10^3$

3 The following physical quantities can be either positive or negative.

$s$  : displacement of a particle along a straight line

$\theta$  : temperature on the Celsius scale

$q$  : electric charge

$V$  : readings on a digital voltmeter

Which of these quantities are vectors?

- A  $s, \theta, q, V$                       B  $s, q, V$  only                      C  $\theta, V$  only                      D  $s$  only

**Space for working**