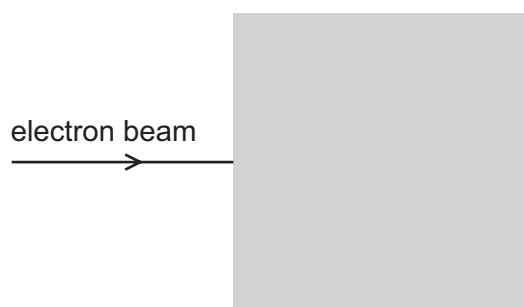


- 29 In the diagram, the shaded area represents a uniform electric field directed away from the observer (at right-angles into the plane of the paper).



A horizontal beam of electrons enters the field, travelling from left to right.

In which direction is this beam deflected by the field?

- A upwards (in the plane of the paper)
 - B downwards (in the plane of the paper)
 - C away from the observer
 - D towards the observer
- 30 In terms of energy transfer W and charge q , what are the definitions of potential difference (p.d.) and electromotive force (e.m.f.)?

	p.d.	e.m.f.
A	$\frac{W}{q}$	$\frac{W}{q}$
B	$\frac{W}{q}$	Wq
C	Wq	$\frac{W}{q}$
D	Wq	Wq

- 31 What is the unit of resistivity?

- A Ωm^{-2}
- B Ωm^{-1}
- C Ω
- D Ωm

Space for working