

**29** Which statement about the alpha-particle scattering experiment provides evidence for the small size of the nucleus?

- A** A tiny proportion of the alpha-particles are deflected through large angles.
- B** Slower alpha-particles are deflected through larger angles.
- C** The kinetic energies of the deflected alpha-particles are unchanged.
- D** The number of alpha-particles deflected depends on the thickness of the foil.

**30** The gold nucleus  $^{185}\text{Au}$  undergoes alpha decay