

- 39** When α -particles are fired at a thin metal foil, most of the particles pass straight through but a few are deflected by a large angle.

Which change would increase the **proportion** of α -particles deflected by a large angle?

- A** using α -particles with greater kinetic energy
- B** using a foil made of a metal with fewer protons in its nuclei
- C** using a double thickness foil
- D** using an alpha source with a higher activity

Space for working