

29 Rutherford's α -particle scattering experiment consisted of an α -particle source that directed its α -particles onto gold leaf. The scattered α -particles were observed when they hit a screen.

Which observation supported the idea that there is a small, massive charged nucleus at the centre of a gold atom?

- A** A large number of α -particles were undeviated.
- B** A small number of α -particles were deviated by more than 90° .
- C** The experiment had to be conducted inside an evacuated space.
- D** The screen produced small flashes of light when α -particles struck the screen.

