

33 The arrow shows the path of an α -particle travelling towards the centre of a gold nucleus.



Which description of the path of the α -particle after striking the gold nucleus is correct?

- A** The α -particle is deflected through a very small angle towards the top of the page.
- B** The α -particle is deflected back along its initial path.
- C** The α -particle carries on in a straight line with **no** deflection.
- D** The α -particle is captured by the nucleus and goes into orbit around it.