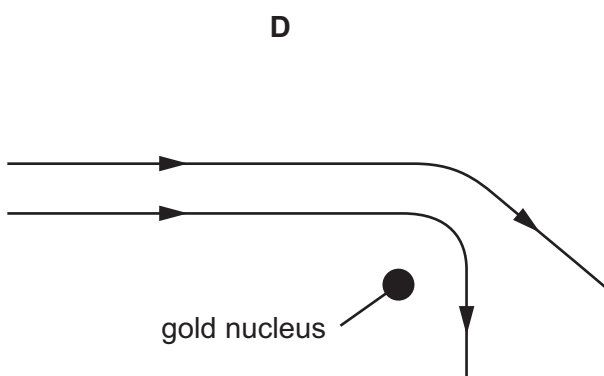
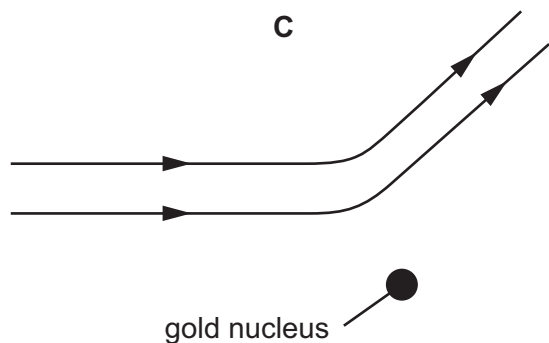
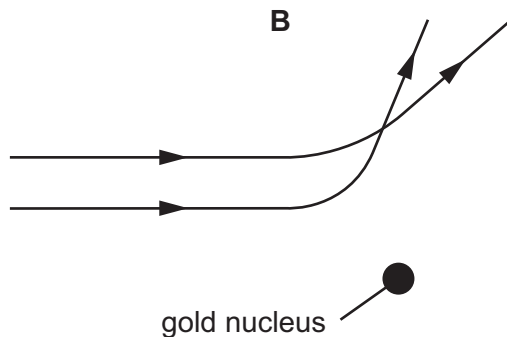
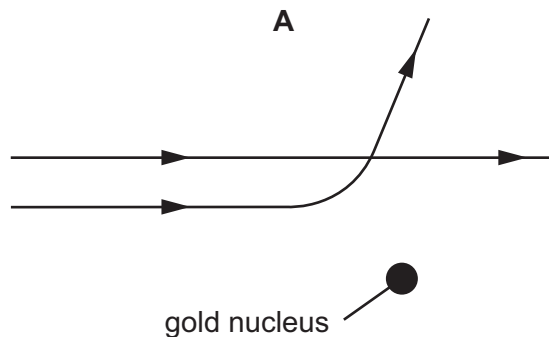


39 Two α -particles with equal energies are fired towards the nucleus of a gold atom.

Which diagram best represents their paths?



40 A nuclear reaction is represented by the equation