

8 The alpha particle scattering experiment led to a number of observations and conclusions.

Which row in the table gives a correct observation and corresponding conclusion from the alpha particle scattering experiment?

	Observation	Conclusion
<input type="checkbox"/> A	Most alpha particles come straight back.	The nucleus is charged.
<input type="checkbox"/> B	Most alpha particles come straight back.	The atom is mainly empty space.
<input type="checkbox"/> C	Most alpha particles go straight through.	The atom is mainly empty space.
<input type="checkbox"/> D	Most alpha particles go straight through.	The nucleus is charged.

(Total for Question 8 = 1 mark)