

34 Three statements about alpha (α) particles and beta (β) particles are listed.

- 1 The magnitude of the charge on an α -particle is twice the charge on a β -particle.
- 2 The mass of an α -particle is large compared with the mass of a β -particle.
- 3 The kinetic energy of an α -particle is small compared to the kinetic energy of a β -particle.

Which statements help to explain the different ionising effects of α -particles and β -particles?

- A** 1, 2 and 3 **B** 1 and 2 only **C** 1 and 3 only **D** 2 and 3 only