

- 29** The Rutherford scattering experiment found that most of the alpha-particles passed through the gold foil with no significant deviation, although a very tiny minority were deflected through large angles, and some were even back-scattered.

The experiment is repeated with a foil made from a heavier isotope of gold.

How would the results be different?

- A** There would be no significant change.
- B** A much greater proportion of the alpha-particles would be back-scattered.
- C** A much greater proportion of the alpha-particles would be deflected through a large angle.
- D** A greater proportion of the alpha-particles would pass through with no significant deviation.