

39 A student conducts an experiment using an α -particle source.

When considering safety precautions, what can be assumed to be the maximum range of α -particles in air?

- A** between 0 and 5 mm
- B** between 5 mm and 200 mm
- C** between 200 mm and 500 mm
- D** between 500 mm and 1000 mm

40 The following represents a sequence of radioactive decays involving two α -particles and one