

- 40** The first artificial radioactive substance was made by bombarding aluminium, ${}_{13}^{27}\text{Al}$, with α -particles. This produced an unstable isotope of phosphorus, ${}_{15}^{30}\text{P}$.

What was the by-product of this reaction?

- A** an α -particle
- B** a β -particle
- C** a neutron
- D** a proton

Space for working