IDENTIFY THE PARTICLE

¹³₆C

In each case identify the particle.

- 1 An atom with 6 protons and the same number of neutrons as a ¹⁴N atom
- 2 An atom with one more proton and the same number of neutrons than an atom of 39 K
- 3 An atom with 10 protons and the same number of neutrons as an atom of ²⁴Mg
- 4 An atom with one fewer proton and the same number of neutrons as an atom of ⁶⁶Zn
- 5 An atom with the same number of protons and two more neutrons as an atom of ⁷⁹Br
- 6 An atom with two fewer protons and the same number of neutrons as an atom of ⁵⁰Cr
- 7 An ion with one more proton and two more neutrons as an atom of ²⁰Ne but the same number of electrons
- 8 An ion with two fewer protons and two fewer neutrons as an atom of ⁴⁰Ar but the same number of electrons
- 9 An ion with two more protons and two more neutrons as an atom of ⁶⁰Ni but the same number of electrons
- 10 An ion with two more protons and three more neutrons as an atom of ²⁰Ne but the same number of electrons
- 11 An ion with one fewer proton, one fewer neutron and the same number of electrons as an atom of 129 Xe.
- 12 An ion with one more proton, two more neutrons, but the same number of electrons as an ion of ⁸⁵Rb⁺
- 13 A particle with two fewer protons, two fewer neutrons and the same number of electrons as an atom of $^{20}\mathrm{Ne}$
- 14 A particle with one fewer proton, two fewer neutrons and one more electron as a ${}^{48}\text{Ti}^{2+}$ ion
- 15 A particle with one fewer proton, two more neutrons and the same number of electrons as a ¹²⁷I⁻ ion