1 This question is about oxygen atoms. The periodic table on the Data Sheet may help you to answer this question.

Oxygen atoms have 8 electrons.

Complete the diagram to represent the arrangement of electrons in an oxygen atom.

Use crosses (×) to represent the electrons.

![Diagram of an oxygen atom with labeled A](image)

Name the part of the oxygen atom that is labeled A on the diagram.

................................................................................................................................. (1 mark)

1 (a) Two isotopes of oxygen are oxygen-16 and oxygen-18.

![Oxygen isotope diagram](image)

Explain, in terms of particles, how the nucleus of an oxygen-18 atom is different from the nucleus of an oxygen-16 atom.

........................................................................................................................................... (2 marks)

(Total 4 marks)

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