**Models of the atom**

**Figure 9** shows two models of the atom. **Figure 9**

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Write the labels on Figure 9. Choose the answers from this list:

**atom - electron - nucleus - neutron - orbit - proton**

**[4 marks]**

Explain why the total positive charge in every atom of an element is always the same.

**[2 marks]**

Which model is the closest to the actual structure of an atom?

**[1 mark]**

Give an account of Rutherford’s ‘gold foil’ experiment and what conclusions were drawn from it.

**[4 marks]**