

AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

The Development of Model of
the Atom

Questions

Includes:

The development of the model of the atom

M M E

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Total Marks: /22

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The development of the model of the atom

Q1: Why do scientific models change over time?

(1 mark)

Q2: Following the discovery of the electron, the 'plum pudding model' was suggested, describe this model.

(2 marks)

Q3: Ernest Rutherford tested this model, what was the name of this test and what did the results of Ernest Rutherford α particle experiments show?

(3 marks)

Q4: What is the charge of an α particle?

(1 mark)

Q5: What conclusions did Rutherford deduce?

(3 marks)

Q6: What theory did Niels Bohr put forward?

(1 mark)

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Q7: How did Bohr show that electrons can move between orbits?

(2 marks)

Q8: Give a definition of a proton in relation to the nucleus and its charge

(2 marks)

Q9: Name the electromagnetic radiation emitted by electrons.

(1 mark)

Q10: Which scientist provided the evidence to support the existence of neutrons within the nucleus model?

(1 mark)

Q11: Discuss the theory of the nuclear model.

(6 marks)