AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

The Periodic Table Questions

Includes:

- The periodic table
- Development of the periodic table

Total Marks: /25

The periodic table

Q1: What is the periodic table?

(2 marks)

Q2: How is the modern day periodic table arranged?

(1 mark)

Q3: Why is it called the periodic table?

(1 mark)

Q4: How and why are elements placed in groups?

(2 marks)

The development of the periodic table

Q5: John Dalton proposed one of the early periodic table suggestions, before the discovery of protons, neutrons and electrons. Describe how he arranged the elements.

(2 marks)

Q6: Which scientist proposed the 'law of octaves'? Circle one.

John Newlands | John Dalton | Dmitri Mendeleev

(1 mark)

Q7: Describe the 'law of octaves' and explain why fellow scientists rejected the theory.

(5 marks)

Q8: Who devised the original version of today's periodic table?

(1 mark)

Q9: Explain how Mendeleev's structured his table.

(2 marks)

Q10: How did Mendeleev approach his table differently from other scientists?

(1 mark)

Q11: Arrangements by atomic weight provided Mendeleev with some elements that didn't fit the pattern, such as Argon. Explain how this problem was eventually overcome.

(2 marks)

Q12: Argon didn't fit Mendeleev's periods, explain why.

(1 mark)

Q13: Using your periodic table give 2 examples of elements other than Argon that didn't fit Mendeleev's pattern.

(2 marks)

Q14: Explain why Mendeleev's table is useful in understanding new elements.

(2 marks)