

AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

Chemical Measurements and
Relative Formula Mass
Questions

M M E

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Total Marks: /24

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Conservation of mass and balanced chemical equations

Q1: State the law of conservation of mass.

(2 marks)

Q2: How is the law of conservation of mass applied in chemical reaction formulas involving symbols?

(1 marks)

Relative formula mass

Q3: Define what is meant by the relative formula mass of a compound.

(2 marks)

Q4: Using the periodic table, state the relative formula mass of the following compounds.

a) MgO

(2 marks)

b) NH₃

(2 marks)

Q5: Balance the equation then fill in the relative formula mass in the boxes.



Relative atomic mass of H:
Number of atoms:
Relative formula mass H₂:

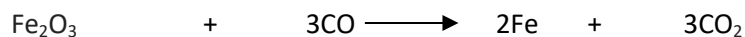
Relative atomic mass N:
Number of atoms:
Relative formula mass
N₂:

Relative formula mass of
NH₃:

(7 marks)

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Q6: Complete the following table for this equation.



Compound or Element	Relative Formula Mass
Fe_2O_3	
3CO	
2Fe	
3CO_2	

(4 marks)

Mass changes

Q7: From reading the equation below and looking at the state symbols, why may the measured mass of the products in this reaction be different to the mass of the reactants?



(2 marks)

Chemical measurements

Q8: Whenever a measurement in chemistry is made, there is a degree of uncertainty in the result. How can we measure uncertainty?

(2 marks)