

# Grade 11 Physical Science M...

records the change in the mass of magnesium as the reaction proceeds at regular intervals. The balanced chemical equation for the reaction is:



The change in the mass of magnesium during the reaction is shown on the graph below.



6.2.1 Identify the limiting agent in this reaction. Give a reason for the answer. (2)

6.2.2 Calculate the number of moles of unreacted hydrochloric acid in the test tube after 3 minutes. (7)

[19]

## Hide Answers

### QUESTION/VRAAG 6

6.1.1  $2\text{H}_2\text{O}_2\text{(aq)} \checkmark \rightarrow 2\text{H}_2\text{O(l)} + \text{O}_2\text{(g)} \checkmark$  (2)

6.1.2 The catalyst lowers the activation energy of the reaction ✓✓

Accept: catalyst speeds up the reaction

In Katalisator verlaag die aktiveringsenergie van die reaksie ✓✓

Aanvaar: katalisator laat die reaksie vinniger plaasvind (2)

6.1.3 **OPTION 1/OPSIE 1**

$$n = \frac{V}{V_m} \checkmark$$

$$n = \frac{0,6}{24,45} \checkmark$$

$$n = 0,0245 \text{ mole/mol O}_2 \text{ produced/gevorm}$$

$$\text{H}_2\text{O}_2 : \text{O}_2 \checkmark$$

$$2 : 1 \checkmark$$

$$n = 0,049 \text{ mole/mol H}_2\text{O}_2 \text{ reacted/reageer}$$

$$n = \frac{m}{M} \checkmark$$

$$0,049 = \frac{m}{34} \checkmark$$

**OPTION 2/OPSIE 2**

From the balanced equation:

Vanaf gebalanseerde vergelyking:



$$X = \frac{68 \times 0,6}{24,45} \checkmark$$

$$X = 1,67 \text{ g} \checkmark$$

# Physical Science Grade 11 Exemplar September 2014

**SB Merriam**



**Physical Science Grade 11 Exemplar September 2014:**

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