



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

**NATIONAL SENIOR
CERTIFICATE**

GRADE 11

**MATHEMATICAL LITERACY P2
MID-YEAR EXAMINATION
JUNE 2023**

MARKS: 75

TIME: 1,5 HOURS

This question paper consists of 06 pages including the cover page.

Mathematical Literacy Pnsc Limpopodoe September 2014 Memorandum

Huangqi Zhang



Mathematical Literacy Pnsc Limpopodoe September 2014 Memorandum:

Whispering the Secrets of Language: An Mental Quest through **Mathematical Literacy Pnsc Limpopodoe September 2014 Memorandum**

In a digitally-driven earth wherever monitors reign great and quick transmission drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within phrases usually go unheard. However, set within the pages of **Mathematical Literacy Pnsc Limpopodoe September 2014 Memorandum** a interesting literary prize sporting with fresh feelings, lies a fantastic journey waiting to be undertaken. Published by a talented wordsmith, that wonderful opus attracts viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the very material of each and every word. Within the mental depths with this poignant evaluation, we shall embark upon a honest exploration of the book is key subjects, dissect their charming writing type, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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 $\text{O}_3 \rightarrow \text{O}_2 + \text{O}$ fast
 $\text{O}_3 + \text{O} \rightarrow \text{O}_2 + \text{O}_2$ slow
a write the overall balanced chemical equation
 $2 \text{ O}_3 \rightarrow 3 \text{ O}_2$ b identify any intermediates within the mechanism
c what is the order with respect

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consider the following mechanism
Step 1: $\text{O}_3 \rightarrow \text{O}_2 + \text{O}$ (fast)
Step 2: $\text{O} + \text{O}_2 \rightarrow \text{O}_3$ (slow)
a) write the overall balanced chemical equation
b) identify any intermediates within the mechanism

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 $\text{Mg} + 2\text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$
The reaction between Mg and HCl is represented by the equation above. In a kinetics experiment, a 0.080 g sample of Mg ribbon is added to an Erlenmeyer flask containing 50 mL of 3.0 M HCl at 25 °C.

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