

# PHYSICAL SCIENCES P.2

## MEMO-2024



basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

G.12

NATIONAL  
SENIOR CERTIFICATE

Diagram on page 9 is redrawn below for easy reference.



Changes to the conditions of equilibrium are made at different times. The graph shows the results obtained. X, Y and Z represent the gases in the above reaction.



4.5 Write down the TYPE of elimination in reaction III.

4.6 Compounds R and T are positional isomers.

The inorganic reagents shown below are available for reactions IV and V.

|                 |                                        |           |     |                |
|-----------------|----------------------------------------|-----------|-----|----------------|
| Br <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> (conc.) | NaOH(aq.) | HBr | H <sub>2</sub> |
|-----------------|----------------------------------------|-----------|-----|----------------|

4.7 Define for both chemical equilibrium.

Use the graph to answer the questions below.

# 14 Grade 12 Preliminary Physics Paper Memo

**Jin-Ying Zhang**



#### 14 Grade 12 Preliminary Physics Paper Memo:

Nuclear Science Abstracts ,1969      *Technical Publications Announcements with Indexes* United States. National Aeronautics and Space Administration,1962      **NASA Technical Memorandum** ,1994      **Parliamentary Papers** Great Britain. Parliament. House of Commons,1913      *The Sale Catalogues of British Government Publications, 1836-1921* Great Britain. Her Majesty's Stationery Office,1977      **Technical Publications Announcements** United States. National Aeronautics and Space Administration,1962-11      Scientific and Technical Aerospace Reports ,1992      **Research in Education** ,1969      **Report of the Committee Appointed to Enquire Into the Entrance Examinations (in Non-military Subjects) of Candidates for Commissions in the Army** Great Britain. Committee on Candidates for Commissions in Army,1894      *Resources in Education* ,1992      *The Electrical Journal* ,1909      Railroad Gazette ,1875      British Medical Journal ,1886      **Monthly Catalog of United States Government Publications** ,1992      **The Electrician** ,1909      *Title List of Documents Made Publicly Available* U.S. Nuclear Regulatory Commission,1989      *Special Reports on Educational Subjects* ,1910      **Technical Abstract Bulletin** ,1980      **Atmospheric Chemiluminescence** S. M. Miller,1989

During the last four years many experiments have been performed in the COCHISE facility Each of these experiments has measured a fundamental chemical quantity such as a radiative branching ratio a quenching rate coefficient or a product vibrational energy distribution These measurements are then provided for incorporation into the various atmospheric radiation codes such as NORSE ARC and AARC where they provide a solid experimental footing for modeling the complex chemical system of the upper atmosphere      **Research in Education** ,1970

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