

Grade 11 Physical Sciences Practical: Intermolecular Forces

CAPS & NSC Aligned | 100 Minutes | 25 Learners in 5 Groups

Teacher Version

This practical investigation allows learners to explore the relationship between intermolecular forces (IMF) and physical properties: evaporation (volatility), surface tension, and miscibility. Learners rotate through three stations, collect data, and complete an individual write-up worth 40 marks.

Timing: 100 min

- 0–10 min: Introduction, safety briefing, station overview
- 10–70 min: Station rotations (20 min per station)
- 70–75 min: Pack-up
- 75–100 min: Individual write-up

Grouping: 25 learners → 5 groups of 5

Materials Required

| Liquid | Per Group | Class Total (5 Groups) |
|------------------------------|-----------|------------------------|
| Water (pure) | 20 mL | 100 mL |
| Water + detergent (pre-mix) | 10 mL | 50 mL |
| Ethanol (methylated spirits) | 20 mL | 100 mL |
| Propan-2-ol (isopropyl) | 5 mL | 25 mL |
| Glycerol | 5 mL | 25 mL |
| Cooking oil | 20 mL | 100 mL |

Safety Precautions

- Wear goggles and gloves at all times.
- No flames — ethanol and propan-2-ol are flammable.
- Do not ingest or touch chemicals with bare hands.
- Wipe spills immediately to avoid slips.
- Dispose of mixed liquids into labelled waste beakers — follow school policy.

Stations

Station A — Evaporation (Volatility) vs IMF

Liquids: water, ethanol, propan-2-ol, glycerol. Measure 0.50 mL (or 10 drops) into watch glasses. Record time to dryness. Repeat for one liquid.

Station B — Surface Tension (Drops-on-a-Coin) vs IMF

Liquids: water, water + detergent, ethanol. Drop from 2 cm height onto a coin until it spills. Record maximum drops. Repeat for water.

Station C — Miscibility vs IMF & Polarity

Liquids: water (with food colouring), cooking oil, ethanol. Test water + oil, then add ethanol; also test ethanol + oil. Record miscibility and layer positions.

Physical Science Paper 2 Intermolecular Forces Investigation

D Kirk



Physical Science Paper 2 Intermolecular Forces Investigation:

Proceedings of the Royal Society. Section A, Mathematical and Physical Science Royal Society (Great Britain),1908
Science Abstracts ,1921 **The Chemical News : and Journal of Physical Science** ,1894 *Research in Education*
,1972 *Resources in Education* ,1972-10 Soviet Physics ,1957 **Nature** Sir Norman Lockyer,1922 **Colloid**
Chemistry Jerome Alexander,1926 **Technical News Bulletin of the National Bureau of Standards** United States.
National Bureau of Standards,1968 **Scientific and Technical Aerospace Reports** ,1976 Lists citations with abstracts
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the National Academy of Sciences of the United States of America ,2000 **Advances in Physical Sciences** ,1957
Annual Report - University of Wisconsin--Madison, Engineering Experiment Station University of
Wisconsin--Madison. Engineering Experiment Station,1978 **The Electrician** ,1890

This book delves into Physical Science Paper 2 Intermolecular Forces Investigation. Physical Science Paper 2 Intermolecular Forces Investigation is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Paper 2 Intermolecular Forces Investigation, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Paper 2 Intermolecular Forces Investigation
 - Chapter 2: Essential Elements of Physical Science Paper 2 Intermolecular Forces Investigation
 - Chapter 3: Physical Science Paper 2 Intermolecular Forces Investigation in Everyday Life
 - Chapter 4: Physical Science Paper 2 Intermolecular Forces Investigation in Specific Contexts
 - Chapter 5: Conclusion
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3. In chapter 2, this book will delve into the foundational concepts of Physical Science Paper 2 Intermolecular Forces Investigation. This chapter will elucidate the essential principles that must be understood to grasp Physical Science Paper 2 Intermolecular Forces Investigation in its entirety.
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6. In chapter 5, the author will draw a conclusion about Physical Science Paper 2 Intermolecular Forces Investigation. The final chapter will summarize the key points that have been discussed throughout the book.
This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Paper 2 Intermolecular Forces Investigation.

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