

# Chapter 11: Liquids and Solids

## A. Intermolecular Forces

1. The addition of heat changes the state of a compound from solid to liquid to gas as kinetic and potential energy are added to the molecules
  - a. Kinetic Energy involves the motion of the molecules
  - b. Potential Energy involves how far apart the molecules are



2. Intermolecular Forces hold the molecules together
  - a. Ion-Dipole Interactions:  $\text{Na}^+\text{Cl}^-$  interactions with water
  - b. Dipole-Dipole Attractions: interaction of polar molecules
  - c. Hydrogen Bonding: special dipole-dipole attraction in molecules where H is bonded to an electronegative atom (O, N, F, etc...)
    - i. Small size of H lets the dipoles get very close
    - ii. Large electronegativity difference makes attraction great

# Grade11 Experiment Intermolecular Force

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## **Grade11 Experiment Intermolecular Force:**

**CHEMISTRY HANDBOOK & STUDY GUIDE Gr11-12 NE** Kevin Smith,2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text **Government Reports Index** ,1970 *Government Reports Annual Index* ,1978 **Flavor chemistry of food: mechanism, interaction, new advances** ,2023-07-24 **Bibliography of Scientific and Industrial Reports** ,1970 **Scientific and Technical Aerospace Reports** ,1972 **Polymer-flow Interaction (La Jolla Institute, 1985)** Yitzhak Rabin,1985 *Bulletin of the Chemical Society of Japan* Nihon Kagakkai,1994 *Government Reports Announcements & Index* ,1986 *Comprehensive Dissertation Index, 1861-1972: Author index* Xerox University Microfilms,1973 *Proceedings of the National Academy of Sciences of the United States of America* National Academy of Sciences (U.S.),1989 **Journal of the Chemical Society** ,1992 *British Abstracts* ,1951 *INIS Atomindex* ,1979 **The Journal of the Iron and Steel Institute** ,1959-12 Includes the institute s *Proceedings* *Physics Briefs* ,1988 **AMP Journal of Technology** ,1991 **Engineers of Distinction** ,1973 **British Chemical Abstracts** ,1951 **Journal Iron and Steel Institute**,1899 Includes the institute s *Proceedings*

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