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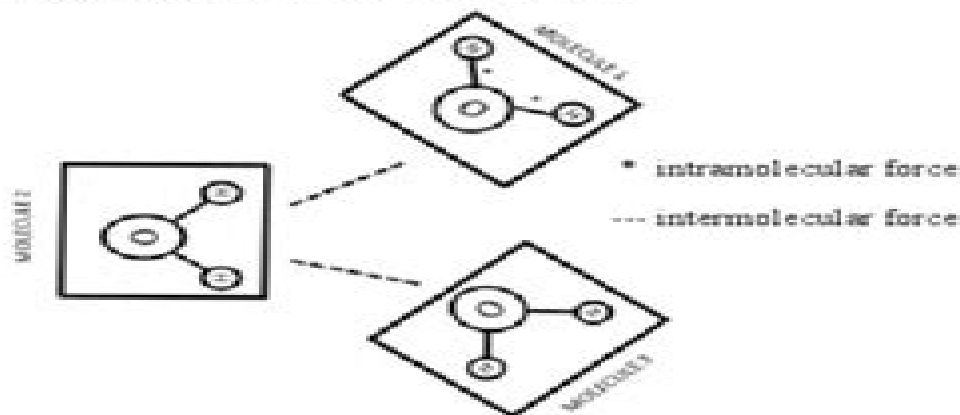
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POGIL: Intermolecular Forces

Model 1: What is an intermolecular force?

As you have learned, matter is made up of discrete particles called **atoms**, which chemically combine to form **molecules**. Molecules do not exist as independent units; in fact, groups of molecules "stick together" in order to form liquids and solids. The forces that hold groups of molecules together are **intermolecular forces**. Without intermolecular forces, the world as we know it would not be the same.

Figure 1: Intramolecular and Intermolecular Forces



Critical Thinking Questions:

1. What specific molecule is represented inside each box in Figure 1?
2. In relation to the box for molecule 1, where do the intramolecular forces exist in Figure 1 – inside the boxes or outside the boxes?
3. Based on the intramolecular forces for molecule 1, draw similar asterisks (*) for the intramolecular forces on the diagram for molecules 2 and 3.
4. In relation to the molecule, where do intramolecular forces tend to occur – within the molecule or outside of the molecule?
5. Two intermolecular forces exist in Figure 1. Where are they positioned relative to the molecules – within the molecules or between the molecules?
6. State the difference between intermolecular and intramolecular forces in terms of where they occur on the molecular level.



Pogil Intermolecular Forces

N Colangelo



Pogil Intermolecular Forces:

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes [Making Chemistry Relevant](#) Sharmistha Basu-Dutt, 2010-03-15 Unique new approaches for making chemistry accessible to diverse students Students interest and achievement in academics improve dramatically when they make connections between what they are learning and the potential uses of that knowledge in the workplace and or in the world at large Making Chemistry Relevant presents a unique collection of strategies that have been used successfully in chemistry classrooms to create a learner sensitive environment that enhances academic achievement and social competence of students Rejecting rote memorization the book proposes a cognitive constructivist philosophy that casts the teacher as a facilitator helping students to construct solutions to problems Written by chemistry professors and research groups from a wide variety of colleges and universities the book offers a number of creative ways to make chemistry relevant to the student including Teaching science in the context of major life issues and STEM professions Relating chemistry to current events such as global warming pollution and terrorism Integrating science research into the undergraduate laboratory curriculum Enriching the learning experience for students with a variety of learning styles as well as accommodating the visually challenged students Using media hypermedia games and puzzles in the teaching of chemistry Both novice and experienced faculty alike will find valuable ideas ready to be applied and adapted to enhance the learning experience of all their students *Analytical Chemistry* Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more [Chemists' Guide to Effective Teaching](#) Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry [Intermolecular Forces](#) Geoffrey C. Maitland, 1981 **Intermolecular Forces** Pierre L. Huyskens, Werner A.P. Luck, Therese Zeegers-Huyskens, 2012-12-06 The study of intermolecular forces began over one hundred years ago in 1873 with the famous thesis of van der Waals In recent decades knowledge of this field has expanded

due to intensive research into both its theoretical and the experimental aspects This is particularly true for the type of very strong cohesive force stressed in 1920 by Latimer and Rodebush the hydrogen bond a phenomenon already outlined in 1912 by Moore and Winemill Hydrogen bonds exert a profound influence on most of the physical and chemical properties of the materials in which they are formed Not only do they govern viscosity and electrical conductivity they also intervene in the chemical reaction path which determines the kinetics of chemical processes The properties of chemical substances depend to a large extent on intermolecular forces In spite of this fundamental fact too little attention is given to these properties both in research and in university teaching For instance in the field of pharmaceutical research about 13000 compounds need to be studied in order to find a single new product that can be successfully marketed The recognition of the need to optimize industrial research efficiency has led to a growing interest in promoting the study of inter molecular forces Rising salary costs in industry have encouraged an interest in theoretical ideas which will lead to tailor made materials

Theory of Intermolecular Forces H. Margenau,N. R. Kestner,2013-10-22 Theory of Intermolecular Forces deals with the exposition of the principles and techniques of the theory of intermolecular forces The text focuses on the basic theory and surveys other aspects with particular attention to relevant experiments The initial chapters introduce the reader to the history of intermolecular forces Succeeding chapters present topics on short intermediate and long range atomic interactions properties of Coulomb interactions shape dependent forces between molecules and physical adsorption The book will be of good use to experts and students of quantum mechanics and advanced physical chemistry Theory of Intermolecular Forces

Henry Margenau,N. R. Kestner,1969 **Intermolecular Forces** , **Intermolecular Forces** A. Pullman,2013-06-29 Proceedings of the 14th Jerusalem Symposium on Quantum Chemistry and Biochemistry Jerusalem Israel April 13 16 1981 **Intermolecular Forces** A. Pullman,2014-01-15 **Convergence of Intermolecular Force Series** Glenn M. Roe,1952 **Introductory Chemistry** Michael P. Garoutte,Ashley B. Mahoney,2015-08-10 The ChemActivities found in Introductory Chemistry A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text Designed to support Process Oriented Guided Inquiry Learning POGIL these materials provide a variety of ways to promote a student focused active classroom that range from cooperative learning to active student participation in a more traditional setting Intermolecular Forces Taro Kihara,1976

The Theory of Intermolecular Forces Anthony J. Stone,1996 Describes advances in the theory of intermolecular forces and sets out the mathematical techniques that are needed to handle the more elaborate models that are being used increasingly by both theoreticians and experimentalists Includes a detailed account of the use of higher rank multipole moments to describe electrostatic interactions including treatment of both Cartesian and spherical tensor methods Modern ab initio perturbation theories of intermolecular interactions are also described Annotation copyright by Book News Inc Portland OR **Intermolecular and Surface Forces** Jacob N. Israelachvili,2011-07-22 Intermolecular and Surface Forces

describes the role of various intermolecular and interparticle forces in determining the properties of simple systems such as gases liquids and solids with a special focus on more complex colloidal polymeric and biological systems The book provides a thorough foundation in theories and concepts of intermolecular forces allowing researchers and students to recognize which forces are important in any particular system as well as how to control these forces This third edition is expanded into three sections and contains five new chapters over the previous edition Starts from the basics and builds up to more complex systems Covers all aspects of intermolecular and interparticle forces both at the fundamental and applied levels Multidisciplinary approach bringing together and unifying phenomena from different fields This new edition has an expanded Part III and new chapters on non equilibrium dynamic interactions and tribology friction forces Intermolecular Forces Faraday Society,1966 **The Forces Between Molecules** Maurice Rigby,1986 Essential reading for anyone seeking a clear introduction to molecular interactions this book describes the nature of intermolecular forces and their influence on the properties of solids liquids and gases **Intermolecular & Surface Forces** J. Israelachvili,1995 Intermolecular and Surface Forces Jacob N. Israelachvili,2008

Whispering the Secrets of Language: An Emotional Journey through **Pogil Intermolecular Forces**

In a digitally-driven world where monitors reign great and immediate conversation drowns out the subtleties of language, the profound strategies and psychological nuances hidden within phrases usually move unheard. Yet, set within the pages of **Pogil Intermolecular Forces** a charming literary value blinking with raw thoughts, lies a fantastic quest waiting to be undertaken. Published by a skilled wordsmith, this enchanting opus attracts viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles fabric of each and every word. Within the mental depths with this touching review, we will embark upon a heartfelt exploration of the book is key subjects, dissect their fascinating publishing design, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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