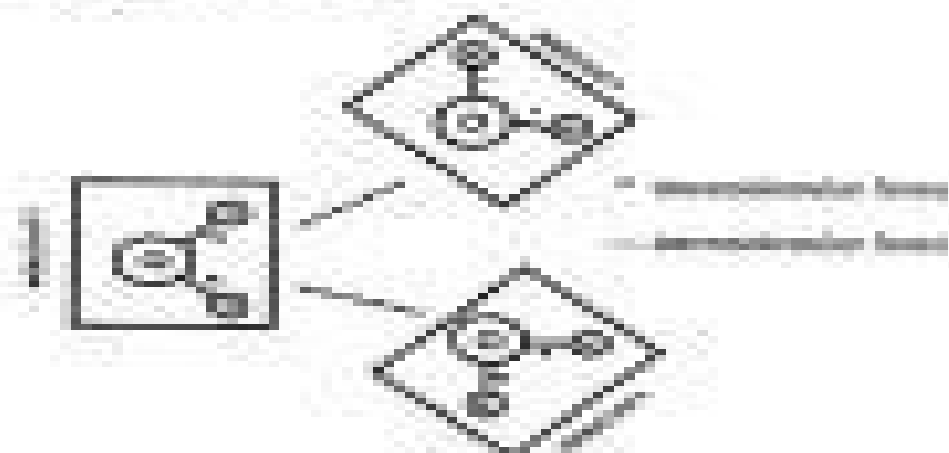


POGIL: Intermolecular Forces

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: Intermolecular and Intramolecular Forces



Critical Thinking Questions

1. What specific molecule is represented inside each box in Figure 1?
H2O
2. In relation to the box for molecule 1, where do the intermolecular forces exist in Figure 1—inside the boxes or outside the boxes?
H2O, H2O, H2O
3. Based on the intermolecular forces for molecule 1, draw similar patterns (?) for the intermolecular forces of the (diagram the 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? H2O, H2O, H2O
5. Draw intermolecular forces under in Figure 1. Where are they positioned relative to the molecules—within the molecules or between the molecules?
H2O, H2O, H2O

6. State the difference between intermolecular and intramolecular forces in terms of where they exist on the molecular level.

Intermolecular = happens between separate units, like water droplets or ice
 Intramolecular = happens within each unit, like water droplets or ice
 difference in the location.

Pogil Intermolecular Answers

Padhraic Smyth



Pogil Intermolecular Answers:

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 *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

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