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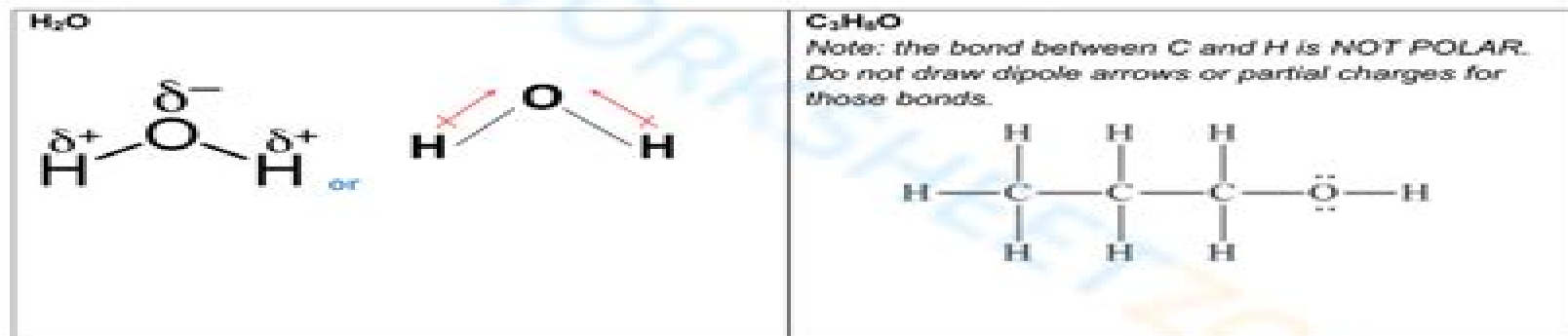
Intermolecular Forces Lab Worksheet - Answer Key



Directions: Today you will complete two experiments that compare the properties of water to isopropanol (a type of rubbing alcohol). Before conducting each experiment, you will first read about the experiment and then make a prediction about what you think will happen. Afterward you do the experiment, you will write an explanation of what was happening at the atomic level that let us observe these properties.

Introduction: In many ways, water is a miracle liquid. It is essential for all living things on earth and it is often referred to as a universal solvent because many substances dissolve in it. Water displays unusual properties due to the ways the individual water molecules interact with each other.

1. Draw the structural formula (with lone pairs) for the two molecules we will be comparing today, water (H_2O) and isopropanol ($\text{C}_3\text{H}_8\text{O}$). Draw a dipole arrow to show the direction the electrons are being pulled and label the areas of partial positive and negative charges.



2. Which molecule is more polar? water

Experiment #1: Penny

How many drops of water fit on the head of a penny? How many drops of isopropanol fit on the head of a penny?

Prediction:

- a. I think _____ drops of water will fit on the head of the penny because _____

Exploring Intermolecular Forces Lab Answers

Thomas R. Yechout



Exploring Intermolecular Forces Lab Answers

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

Exploring General Chemistry in the Laboratory Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science

Chemistry 2e Paul Flowers, Richard Langely, William R. Robinson, Klaus Hellmut Theopold, 2019-02-14 Chemistry 2e is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition

Argument-Driven Inquiry in Physical Science
Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Ashley Murphy, Victor Sampson, 2016-10-01 Are you interested in using

argument driven inquiry for middle school lab instruction but just aren't sure how to do it

Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away. The book is a one-stop source of expertise, advice, and investigations to help physical science students work the way scientists do. The book is divided into two basic parts: 1. An introduction to the stages of argument-driven inquiry from question identification, data analysis, and argument development and evaluation to double-blind peer review and report revision. 2. A well-organized series of 22 field-tested labs designed to be much more authentic for instruction than traditional laboratory activities. The labs cover four core ideas in physical science: matter, motion and forces, energy, and waves. Students dig into important content and learn scientific practices as they figure out everything from how thermal energy works to what could make an action figure jump higher. The authors are veteran teachers who know your time constraints, so they designed the book with easy-to-use, reproducible student pages, teacher notes, and checkout questions. The labs also support today's standards and will help your students learn the core ideas, crosscutting concepts, and scientific practices found in the Next Generation Science Standards. In addition, the authors offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards. Many of today's middle school teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities. **Argument Driven Inquiry in Physical Science** does all of this while also giving students the chance to practice reading, writing, speaking, and using math in the context of science.

Bulletin ... Indiana University. School of Medicine, 1992

Exploring Chemistry Year 12, 2015-12-18

The Forces Between Molecules Maurice Rigby, 1986. Describes at an introductory level the nature of intermolecular forces and their influence on the properties of solids, liquids, and gases. A more advanced treatment of the subject may be found in the same author's *Intermolecular Forces*.

Exploring Chemistry Year 11 Science Teachers' Association of Western Australia, 2014-09-30

Chemical Misconceptions Keith Taber, 2002. Part one includes information on some of the key alternative conceptions that have been uncovered by research and general ideas for helping students with the development of scientific conceptions.

Illustrated Guide to Home Chemistry Experiments Robert Bruce Thompson, 2012-02-17. For students, DIY hobbyists, and science buffs who can no longer get real chemistry sets, this one-of-a-kind guide explains how to set up and use a home chemistry lab with step-by-step instructions for conducting experiments in basic chemistry, not just to make pretty colors and stinky smells, but to learn how to do real lab work: Purify alcohol by distillation. Produce hydrogen and oxygen gas by electrolysis. Smelt metallic copper from copper ore you make yourself. Analyze the makeup of seawater, bone, and other common substances. Synthesize oil of wintergreen from aspirin and rayon fiber from paper. Perform forensics tests for fingerprints, blood, drugs, and poisons, and much more. From the 1930s through the 1970s, chemistry sets were among the most popular Christmas gifts, selling in the millions. But two decades ago, real chemistry sets began to disappear as manufacturers and retailers became concerned about liability.

em **The Illustrated Guide to Home Chemistry Experiments**

steps up to the plate with lessons on how to equip your home chemistry lab master laboratory skills and work safely in your lab The bulk of this book consists of 17 hands on chapters that include multiple laboratory sessions on the following topics Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions Stoichiometry Reduction Oxidation Redox Reactions Acid Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier s Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full color illustrations and photos Illustrated Guide to Home Chemistry Experiments offers introductory level sessions suitable for a middle school or first year high school chemistry laboratory course and more advanced sessions suitable for students who intend to take the College Board Advanced Placement AP Chemistry exam A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first year college general chemistry laboratory course This hands on introduction to real chemistry using real equipment real chemicals and real quantitative experiments is ideal for the many thousands of young people and adults who want to experience the magic of chemistry

Introduction to Polymer Chemistry Judit E. Puskas, Ph.D,2013-11-18 Fundamental concepts and reactions explained through polymers from plants and animals Macromolecular structures introduced via biological polymers Includes a course syllabus study questions and exercises Extensive lab guidance and protocols for DNA isolation amplification using PCR Full color figures shown throughout the text This book connects modern synthetic polymer chemistry to its roots by exploring the chemistry of natural polymers and self assembled macromolecular structures Designed to introduce students to the basics of polymer science the text investigates intermolecular forces functional groups and key reactions by means of polymers found in and produced by living plants and animals including proteins rubber DNA fibers lignin carbohydrates and many others The author explains how varied natural polymeric systems illustrate a wide array of fundamental polymer concepts Key analogies are demonstrated between mechanisms in biological and synthetic polymerization and the text uses growth DNA replication self assembly and other biological processes to assist the student in mastering the terminology and molecular level mechanisms of polymer chemistry To guide both instructors and students the book includes the outline of a one semester course syllabus end of chapter questions as well as detailed instructions for setting up multiple labs dealing with gene isolation and amplification using polymerase chain reaction techniques PCR Each chapter also offers exercises based on real world examples

Concepts of Biology Samantha Fowler,Roush Rebecca,James Wise,2017-12-30 Concepts of Biology is designed for the introductory biology course for nonmajors taught at most two and four year colleges The scope sequence and level of the program are designed to match typical course syllabi in the market Concepts of Biology includes interesting applications features a rich art program and conveys the major themes of biology The images in this textbook are grayscale

A Framework for K-12 Science Education National Research Council,Division of Behavioral and Social Sciences

and Education, Board on Science Education, Committee on a Conceptual Framework for New K-12 Science Education Standards, 2012-02-28 Science engineering and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States position in the global economy is declining in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and subsequently revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are crosscutting concepts that unify the study of science through their common application across science and engineering: scientific and engineering practices and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences; and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

Polymer Chemistry David M. Teegarden, 2004. This high school textbook introduces polymer science basics, properties, and uses. It starts with a broad overview of synthetic and natural polymers and then covers synthesis and preparation, processing methods, and demonstrations and experiments. The history of polymers is discussed alongside the science.

The FASEB Journal, 1988

Introduction to Aircraft Flight Mechanics Thomas R. Yechout, 2003. Based on a 15-year successful approach to teaching aircraft flight mechanics at the US Air Force Academy, this text explains the concepts and derivations of equations for aircraft flight mechanics. It covers aircraft performance, static stability, aircraft dynamics, stability, and feedback control.

Strengthening Forensic Science in the United States National Research Council, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Policy and Global Affairs, Committee on Science, Technology, and Law, Committee on Identifying the Needs of the Forensic Sciences Community, 2009-07-29. Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to

ensure the reliability of work establish enforceable standards and promote best practices with consistent application Strengthening Forensic Science in the United States A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity the National Institute of Forensic Science to establish and enforce standards within the forensic science community The benefits of improving and regulating the forensic science disciplines are clear assisting law enforcement officials enhancing homeland security and reducing the risk of wrongful conviction and exoneration Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines including upgrading of systems and organizational structures better training widespread adoption of uniform and enforceable best practices and mandatory certification and accreditation programs While this book provides an essential call to action for congress and policy makers it also serves as a vital tool for law enforcement agencies criminal prosecutors and attorneys and forensic science educators Giant Molecules A. I?U. Grosberg,A. R.

Khokhlov,Pierre-Gilles de Gennes,2011 Giant molecules are important in our everyday life But as pointed out by the authors they are also associated with a culture What Bach did with the harpsichord Kuhn and Flory did with polymers We owe a lot of thanks to those who now make this music accessible Pierre Gilles de Gennes Nobel Prize laureate in Physics Foreword for the 1st Edition March 1996 This book describes the basic facts concepts and ideas of polymer physics in simple yet scientifically accurate terms In both scientific and historic contexts the book shows how the subject of polymers is fascinating as it is behind most of the wonders of living cell machinery as well as most of the newly developed materials No mathematics is used in the book beyond modest high school algebra and a bit of freshman calculus yet very sophisticated concepts are introduced and explained ranging from scaling and reptations to protein folding and evolution The new edition includes an extended section on polymer preparation methods discusses knots formed by molecular filaments and presents new and updated materials on such contemporary topics as single molecule experiments with DNA or polymer properties of proteins and their roles in biological evolution *Chemistry 2e* Paul Flowers,Klaus Theopold,Richard Langley,Edward J. Neth,William R.

Robinson,2019-02-14 *Chemistry 2e* is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in *Chemistry 2e* are described in the preface to help instructors transition to the second edition **Density Functional Theory** David S. Sholl,Janice A. Steckel,2011-09-20 Demonstrates how anyone in math science and engineering can master DFT calculations Density functional theory DFT is one of the most frequently used

computational tools for studying and predicting the properties of isolated molecules bulk solids and material interfaces including surfaces Although the theoretical underpinnings of DFT are quite complicated this book demonstrates that the basic concepts underlying the calculations are simple enough to be understood by anyone with a background in chemistry physics engineering or mathematics The authors show how the widespread availability of powerful DFT codes makes it possible for students and researchers to apply this important computational technique to a broad range of fundamental and applied problems Density Functional Theory A Practical Introduction offers a concise easy to follow introduction to the key concepts and practical applications of DFT focusing on plane wave DFT The authors have many years of experience introducing DFT to students from a variety of backgrounds The book therefore offers several features that have proven to be helpful in enabling students to master the subject including Problem sets in each chapter that give readers the opportunity to test their knowledge by performing their own calculations Worked examples that demonstrate how DFT calculations are used to solve real world problems Further readings listed in each chapter enabling readers to investigate specific topics in greater depth This text is written at a level suitable for individuals from a variety of scientific mathematical and engineering backgrounds No previous experience working with DFT calculations is needed

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