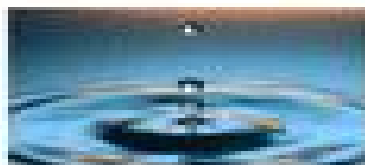


Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: \_\_\_\_\_

## 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 ( $\text{H}_2\text{O}$ ) 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.

$\text{H}_2\text{O}$



or



$\text{C}_3\text{H}_8\text{O}$

Note: the bond between C and H is NOT POLAR. Do not draw dipole arrows or partial charges for those bonds.



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 \_\_\_\_\_

# Intermolecular Forces Lab And Answers

**Denise Guinn, Rebecca Brewer**



## **Intermolecular Forces Lab And Answers:**

**Lab Manual for General, Organic, and Biochemistry** Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives Essentials of General Organic and Biochemistry captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit [www.whfreeman.com/gob](http://www.whfreeman.com/gob)

*The Handy Chemistry Answer Book* Justin P. Lomont, Ian C. Stewart, 2013-10-01 Don't be mixed up about chemistry Simplify the complex chemical reactions that take place everywhere in our lives with this engaging easy to follow question and answer guide Where would we be without atoms and compounds Gas liquids solids and plasma Acids and bases Bonds and reactions Matter and energy The Handy Chemistry Answer Book covers the building blocks of life and the universe The secret life of atoms how polar bears aren't actually white why oil and water don't mix and much much more are revealed and explained This informative guide covers the basics of chemistry history atomic structures chemical bonds and reactions organic and inorganic chemistry to more advanced material nuclear chemistry biochemistry physical and theoretical chemistry by answering nearly 1 000 common chemistry questions including What causes lightning How does photosynthesis work What are hard and soft Lewis acids and bases What makes a fabric waterproof What are the twelve principles of green chemistry When did alchemists finally abandon trying to make gold What is Le Chatelier's principle What do the different octane ratings mean at the gas pump What is genetic engineering Why is calcium important for strong bones What is the 18 electron rule Why does chocolate turn white as it ages Chemical reactions that rule the world their properties structure composition behavior and history are tackled and explained in plain English in The Handy Chemistry Answer Book With many photos illustrations a few formulas molecular diagrams and other graphics this fun fact filled tome is richly illustrated A history of chemistry timeline appendices on Nobel Prize in Chemistry winners a bibliography further reading section glossary of terms a table of physical constants a table of conversion factors and extensive index add to its usefulness

*Take-Home Chemistry* Michael Horton, 2011 For high school science teachers homeschoolers science coordinators and informal science educators this collection of 50 inquiry based labs provides hands on ways for students to learn science at home safely Author Michael Horton promises that students who conduct the labs in Take Home Chemistry as supplements to classroom instruction will enhance higher level thinking improve process skills and raise high stakes test scores

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Zitzewitz,1998-07     Holt Chemistry Ralph Thomas Myers,2004     *Air Force Research Resumés* ,1964     McGraw-Hill's *500 MCAT Organic Chemistry Questions to Know by Test Day* John T. Moore,Richard H. Langley,2012-06-19 Contains five hundred questions and answers about organic chemistry to help students prepare for the MCAT exam     **Exploring Chemistry (Loose-Leaf)** Matthew Johll,2012-05-04 Matthew Johll s Exploring Chemistry overs the standard topics for the nonmajors course in the typical order but each chapter unfolds in the context of a single case study that helps students connect what they are learning to real life situations For example students work through the often difficult topics of molecular structure gas laws and organic chemistry by learning about the development of powerful new chemotherapy drugs new technologies for screening airline passengers and the creation of biodegradable biopolymers It s the same same case driven approach that Johll uses in his acclaimed Investigating Chemistry now in its Third Edition but Exploring Chemistry goes beyond the other book s specific focus on examples from forensic science to use real life stories from cooking athletics genetics green chemistry and more     **Basic Research Resumés** ,1961     *Tests* Richard C. Sweetland,1991 Provides descriptive information on some 3 200 tests for the benefit of test evaluators and others who need to determine if a test suits their purposes Each entry includes test name and author an indication of the population for which the test is intended how the test is administered major features of the test how the test is timed and scored pricing and availability information and publisher and distributor Cross referenced and indexed eight ways Distributed by Gale Research Annotation copyrighted by Book News Inc Portland OR     Chemistry Lemay,Prentice-Hall Staff,1996     *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     **Aeronautical Engineering Review** ,1955     The FASEB Journal ,1988     **Physics Briefs** ,1991     *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction     **Aeronautical Engineering Index** ,1957     Study Guide/Selected Solutions Manual Julie R. Frentrup,2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book     **Descriptive Inorganic Chemistry** Geoff Rayner-Canham,Tina Overton,2014-09-19 This bestselling text gives students a

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