



Chemistry Penny Lab

Investigation of Intermolecular Forces



Chemistry is the study of the properties and interactions of matter. In this activity you will observe and quantitatively record a phenomenon that is a function of various forces acting on molecules in some liquid compounds. Observers will record the maximum number of drops that hold together on the surface of a penny.

Safety

- This lab will use flammable and toxic materials in manageable sizes.
- If you are unclear about any step, seek clarification before proceeding.
- Make sure to wear safety goggles and a lab apron.
- Keep the vials closed between uses.

Materials

1 vial of water
1 vial of isopropyl alcohol
1 vial of acetone
1 vial of heptane
4 disposable pipettes

1 penny
20 Q-tips
paper towels
Ziploc bag for waste

Procedure

1. **Prepare workspace:** During this lab always work over a clean paper towel. Locate the water vial and two Q-tips.
2. **Clean the penny surface:** Make sure your goggles are on at this point. Open the vial of water and dip one end of a Q-tip in it. Use a second dry Q-tip to hold the penny down while scrubbing it with the wet Q-tip. After scrubbing, wipe the penny dry with the second dry Q-tip, you can use both ends. Open the Ziploc bag and place both Q-tips in it. Repeat the entire process a second time. At all times do not touch any water during the process. This same technique will be used on the more hazardous liquids. Close the Ziploc bag containing the used Q-tips, consider it your mini fume hood.
3. **Measure the drop count:** Place the open vial of water near the penny. Draw water into the pipette until the barrel is mostly full. (The bulb part should remain empty). Keeping the pipette pointed straight downward, position it a few millimeters

Chemistry Penny Lab Answers

Michael E Green



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Environmental Chemistry in the Lab Ruth Ann Murphy, 2022-08-31 Environmental Chemistry in the Lab presents a comprehensive approach to modern environmental chemistry laboratory instruction together with a complete experimental experience The laboratory experiments have an introduction for the students to read a pre lab for them to complete before coming to the lab a data sheet to complete during the lab and a post lab which would give them an opportunity to reinforce their understanding of the experiment completed Instructor resources include a list of all equipment and supplies needed for 24 students a lab preparation guide an answer key to all pre lab and post lab questions sample data for remote learners and a suggested rubric for grading the labs Additional features include Tested laboratory exercises with instructor resources for environmental science students Environmental calculations industrial regulation and environmental stewardship Classroom and remote exercises An excellent user friendly and thought provoking presentation which will appeal to students with little or no science background A qualitative approach to the chemistry behind many of our environmental issues today 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 *Chemistry Education* Javier García-Martínez, Elena Serrano-Torregrosa, 2015-02-23 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education Highly experienced chemistry professors and education experts cover the latest developments in chemistry

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Chemistry in the Laboratory James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations

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

Chemistry and Society Michael E Green, 2019

Who's the New Kid in Chemistry? John D. Butler, 2013-12-12 Who's the New Kid in Chemistry offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student Over the course of seventy nine consecutive days John D Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M Waters's high school chemistry class documenting his experiences as they unfold Who's the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom This work includes a discussion on flexible homework assignments data driven instruction and thirty teacher best practices This book is an invaluable resource for teachers across all content areas masters and doctoral research method classes and future Teachers of the Year

Organic Chemistry Penny Chaloner, 2014-12-15 Offering a different more engaging approach to teaching and learning Organic Chemistry A Mechanistic Approach classifies organic chemistry according to mechanism rather than by functional group The book elicits an understanding of the material by means of problem solving instead of purely requiring memorization The text enables a deep understanding of underlying principles that can be applied to a wide range of problems and systems It also teaches a way of thinking and analysis that will serve students well across many academic disciplines Covering all the key aspects of organic chemistry this text emphasizes the development of skills through a student centered approach In order to provide a contemporary feel to the subject the author has included some of the more

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 Chemistry McGraw-Hill Staff,2001-07

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