

# Periodic Law

## OBJECTIVES

- To observe and investigate the periodic trends for reactivity, density, pH and solubility within groups 1, 2 and 14 in the periodic table of the elements.

## INTRODUCTION

When the elements are arranged in order of increasing atomic number, there is a periodic occurrence of properties that leads to the grouping of elements on the periodic table. Elements in vertical columns form groups or families that are characterized by marked similarities in physical and chemical properties. These similarities are due to the fact that all of the elements within a group have the same number of valence electrons. Within a group, periodic trends in certain properties can be observed. The properties of density and solubility, for example, are known to vary regularly within groups of elements.

## PROCEDURE

### PART A

The teacher will demonstrate the reactivity of three elements (Lithium, Sodium and Potassium) in group 1, by adding a small piece of the metal to water. Observe data sheet and record observations and rank the three elements in order of reactivity.

Element	Reactivity	Observations
Li		
Na		
K		

### PART B

- Pour about 5 mL of distilled water into a clean dry test tube.
- FRONT LAB TABLE:** Remove the pH probe with caution from the water bottle and insert the pH probe into the distilled water. Note the pH on the "Lab Quest". Remove the pH probe and store with the water bottle.
- FRONT LAB TABLE:** Add a few drops of phenolphthalein solution to the reaction tube. Phenolphthalein solution turns pink in the presence of a base.

# The Periodic Law Lab Answers

**Ying-Ying Zheng**



## The Periodic Law Lab Answers:

Laboratory Manual for Principles of General Chemistry J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued

emphasis on handling data is supported by the Data Analysis section **Laboratory Manual for Principles of General Chemistry** Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures **Exploring Physical Science in**

**the Laboratory** John T. Salinas, 2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts Science Action Labs Physical Science (eBook) Edward Shevick, 1998-03-01 Matter and Motion These easy to use

hands on explorations are just what you need to get your science curriculum and your students into action Laboratory Experiments for General Chemistry Harold R. Hunt, Toby F. Block, George M. McKelvy, 1998 **Scientific and Technical Aerospace Reports**, 1990 *The Bookseller, Newsdealer and Stationer*, 1899 *Lab Experiments Modern Chemistry* Harold Clark Metcalfe, 1982 *Nuclear Science Abstracts*, 1976 **Pp/Chemistry** BarCharts, Inc., 2008-06-18 **Energy**

**Research Abstracts** ,1989      **The Laboratory** ,1938      **American Journal of Science** ,1890      **The American Journal of Science** ,1890      The American Journal of Science Mrs. Gambold,1890      **Government Reports Announcements & Index** ,1990      **Government Reports Announcements** ,1974      *Bulletin of the United States Bureau of Labor Statistics* ,1979      *Gaither's Dictionary of Scientific Quotations* Carl C. Gaither,Alma E.

Cavazos-Gaither,2008-01-08 Scientists and other keen observers of the natural world sometimes make or write a statement pertaining to scientific activity that is destined to live on beyond the brief period of time for which it was intended This book serves as a collection of these statements from great philosophers and thought influencers of science past and present It allows the reader quickly to find relevant quotations or citations Organized thematically and indexed alphabetically by author this work makes readily available an unprecedented collection of approximately 18 000 quotations related to a broad range of scientific topics      **Holt Science Spectrum: Physical Science** Holt Rinehart & Winston,2002-08 20 traditional laboratory experiments provide students with data collection opportunities that reinforce concepts covered in the text

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