

## Flame Test Lab

### Activity Key

#### Background

The heat from a laboratory burner will cause the ions of some elements to give off light. Electrons will absorb the heat energy from the flame and will “jump” to a higher energy level. When the electrons return to their original energy levels, this absorbed energy is released as light. Different elements absorb and release different amounts of energy and thus produce different kinds of light. This light may be visible or invisible, infrared or ultraviolet radiation. Analysis of this light can be used to identify elements and molecules. In today’s lab, we will observe the visible range of light emission.

#### Objectives

1. Perform a flame test to identify the characteristic color of metal ions.
2. Identify the metal ion in an unknown solution.
3. Calculate the energy of emitted photons.

#### Materials: (per lab group)

10 ml dilute solutions of the following:

Barium Chloride  
Calcium Chloride  
Lithium Chloride  
Potassium Chloride  
Sodium Chloride  
Strontium Chloride  
Unknown Solution

7 Wood Splints

1 Bunsen Burner

Safety Goggles & Aprons

#### Note:

If chloride compounds are not available, metal nitrate compounds may be substituted.

Use dilute or approximately 0.1 M solutions

#### Unknowns:

Number the beakers 1-12.

Add solutions as follows:

1. Strontium Chloride

2. Calcium Chloride

3. Potassium Chloride

4. Barium Chloride

5. Lithium Chloride

6. Sodium Chloride

7. Calcium Chloride

8. Strontium Chloride

9. Barium Chloride

10. Potassium Chloride

11. Sodium Chloride

12. Lithium Chloride

#### Procedure

1. Put on your safety goggles and an apron.
2. Obtain a wood splint and the barium chloride solution.
3. Dip the wood splint into the solution and allow it to soak for 1-2 minutes.
4. Light Bunsen Burner. USE CAUTION!
5. Remove the splint from the solution and hold the end of the splint into the flame. Do not burn the splint.
6. Observe and record the color of the flame.
7. Repeat steps 2-6 using the remaining chloride solutions.
8. Obtain an unknown solution from your teacher. Record the number of your unknown.
9. Soak a wood splint in the unknown solution.
10. Hold the splint in the flame and record the color of the flame that is produced.
11. Using your data, identify the metal ion in your unknown solution.

# Prentice Hall Flame Test Lab Answers

**Jr., J. Benton Jones**



## **Prentice Hall Flame Test Lab Answers:**

*Prentice Hall Exploring Earth Science*, 1997      **Matter** Prentice-Hall Staff, 1994      **Chemistry** Dorin, Prentice Hall Dictionary Editors, 1992      Chemistry Eugene LeMay, Jr., Herbert Beall, Karen M. Robblee, Douglas C. Brower, Prentice-Hall Staff, 2002-02      *Prentice Hall Earth Science*, 1988      Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents      **Prentice Hall Chemistry** Antony C. Wilbraham, 2008      *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

Chemical Flame Inhibition Using Molecular Beam Mass Spectrometry Alan H. Goode, Ann G. Kim, Arthur W. Hall, Basil Dimitriadis, Carol A. Wilson, Curtis H. Elder, George L. Gates, H. H. Fields, Harry V. Makar, Howard E. Powell, J. R. Allsup, Joan C. Biordi, John C. Franklin, John F. Papp, L. A. Johnson, Martin Hertzberg, Oleg Terichow, Peter R. Tisot, R. H. Sprute, Richard E. Siemens, Charles D. Litton, Charles P. Lazzara, D. J. Kelsh, Edward P. Ferrero, G. V. Sullivan, John H. Perry, L. Y. Sadler, Lee T. Nuzum, Leland C. Marchant, Maurice Deul, Philip C. Good, Ralph D. Fleming, Robert S. Kaplan, W. Hodge Caraway, Waldemar M. Dressel, Adare L. Hill, Cecil Q. Cupps, E. K. Landis, H. J. Coleman, H. J. Lechtenberg, L. Janowski, Robert Lynn Crosby, William Albert Stickney, 1975

*Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004* Kenneth Raymond Miller, Joseph S. Levine, Prentice-Hall Staff, 2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level

**Laboratory Guide for Conducting Soil Tests and Plant Analysis** Jr., J. Benton Jones, 2001-06-28 With the help of this guide you can use obtained test results to evaluate the fertility status of soils and the nutrient element status of plants for crop production purposes It serves as an instructional manual on the techniques used to perform chemical and physical characteristic tests on soils Laboratory Guide for Conducting Soil Tests and Pl

*Experiment Station Work, XVIII* A. A. Denton, A. J. Pieters, C. L. Marlatt, Charles Ford Langworthy, David Montgomery Nesbit, Edward James Wickson, Frederick William Mally, George Edward Patrick, George Fayette Thompson, George Griswold Hill, Henry Eugene Williams, Mark Alfred Carleton, Mary Hinman Abel, Maurice O. Eldridge, William Logan Hall, 1900

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*Applied Mechanics Reviews* ,1964

Heat Release in Fires Vytenis Babrauskas, S. J. Grayson, 1990-12

*ASTM's Role in Performance-based Fire Codes and Standards* John Raymond Hall, 1999 From the December 1998 symposium of the same name come 11 contributions which explore the role ASTM an international developer of technical and materials standards can play in the propagation of performance based fire codes and standards in the United States and Canada codes and

standards already      **Instructors Manual to Lab Manual** Ralph Petrucci, William Harwood, Geoffrey Herring, 2001

**Cytopathology** Behdad Shambayati, 2018 Cytopathology provides a wide ranging overview of the microscopic study of normal and abnormal cells showing how current visualization methods are used to study cell structure and how early detection of abnormal cell pathology can lead to timely clinical interventions      Principles and Practice of Environmental Medicine A.B. Tarcher, 2013-11-11 Throughout the world scientists and the general public are concerned about the adverse effects of view of chemical and physical agents commonly toxic agents found in contaminated air water food found in contaminated air water food and soil and soil In the past attention has focused on haz The problem of hazardous wastes is also discussed ards originating in the workplace As a consequence Part II presents an over public are concerned about the adverse effects of view of chemical and physical agents commonly toxic agents found in contaminated air water food found in contaminated air water food and soil and soil In the past attention has focused on haz The problem of hazardous wastes is also discussed ards originating in the workplace As a consequence Part III characterizes the body s defense against occupational medicine has become a well recognized such exposure Defenses at the portals of entry are and established clinical discipline Much less atten discussed with emphasis placed on the role of tion has been paid to nonoccupational hazards There nutrition Detoxication and immunologic defense is a growing awareness however of the dangers of mechanisms are described Part IV indicates the exposure to toxic chemical and physical agents in importance of and provides instruction on the the homes community and general environment method of including occupational and environmen especially for the fetus the infant the very young tal factors in the routine medical history The role of the elderly and the chronically ill those most sus enhanced susceptibility as a factor in an individual s ceptible Environmental medicine fOCUSing on the response to toxic exposure is discussed      *Lees' Loss Prevention in the Process Industries* Frank Lees, 2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes The field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and Lees is a detailed reference to defending against hazards Recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead The process safety encyclopedia trusted worldwide for over 30 years Now available in print and online to aid searchability and portability Over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources

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