

Name: _____

Hour: _____

Lab 7: Flame Test Lab

Prelab Reading

The normal electron configuration of atoms or ions of an element is known as the "ground state". In this most stable energy state all of the electrons are in the lowest energy levels available. When atoms or ions in the ground state are heated to high temperatures some electrons may absorb energy and "jump" to a higher energy level. The element is then said to be in an "excited state". This excited configuration is unstable and the electrons will "fall back" to their normal positions of lower energy. As the electrons return to their normal levels the energy that was absorbed is now emitted in the form of electromagnetic radiation. Some of this radiation is in the form of visible light.

The color of this light can be used as a means of identifying the elements involved. This analysis is known as a flame test. Only metals, with their loosely held electrons, are excited by the flame of a bunsen burner. Thus flame tests are useful in the identification of metallic ions. Many metallic ions exhibit characteristic colors when vaporized by the burner flame. In this experiment characteristic colors of several different metallic ions will be observed and unknown ions will be identified by means of the flame test.

Before beginning the pre-lab questions below, be sure to read the procedure on the next page.

Pre-Lab Questions:

1. What is the difference between ground state and an excited state?

Ground state: all electrons are at the lowest possible energy levels.

Excited state: Atoms/ions absorb energy and go to a higher energy.

2. What does the word "emit" mean?

Emit is defined as being produced (i.e. the energy that was absorbed is produced in the form of electromagnetic radiation).

3. In this experiment, where are the atoms getting their excess energy from?

The electrons are getting the excess energy from a bunsen burner.

4. Why do different atoms emit different colors of light?

Atoms emit different colors because of their chemical makeup.

5. Why is it necessary to clean the nichrome wires between each flame test?

It is necessary to clean the wires between the flame tests because if you don't, the atoms might not display their characteristic color because they were mixed with another atom.

Flame Test Lab Answers

**Robert A. Pollack, Lorraine
Findlay, Walter Mondschein, R. Ronald
Modesto**

Flame Test Lab Answers:

Lab Experiments in Introductory Chemistry Phil Reedy, Donald J. Wink, Sharon Fetzer-Gislason, 2003-03-21 The manual contains laboratory experiments written specifically for the prep chem lab as well as for the general chemistry course Available as a complete manual or custom published at <http://custompub.whfreeman.com> The Science I Know Suzanna Roman-Oliver, 2024-07-08 The Science I Know Culturally Relevant Science Lessons from Secondary Classrooms is a collection of culturally relevant lesson plans written by secondary science teachers Each lesson discusses how the tenets of academic success cultural competence and critical consciousness that are part of the theory of Culturally Relevant Pedagogy CRP are addressed Ladson Billings 1995 Additionally each lesson plan is structured following the 5E learning cycle Bybee 2006 and aligned to the Next Generation Science Standards NAS 2012 The goal of this book is to help science teachers understand how to go about designing lessons that are culturally relevant The hope is that the lessons that are detailed in each chapter will inspire teachers to draw the cultural knowledge from their students and capitalize on it when designing science lessons After an introductory chapter that discusses how science education has shifted in recent decades to address the needs of diverse students the main body of the text is divided into three sections The first part introduces Culturally Relevant Pedagogy CRP as a framework this is important for those readers unfamiliar with Gloria Ladson Billings work It addresses and discusses the three tenets of CRP Academic Success Cultural Competence and Critical Consciousness and it includes an explanation of how each area can be observed and addressed in science education specifically The second part features lesson plans from secondary science classrooms written by teachers from different subject areas i e life science physical science earth science etc The lesson plans follow the 5E Instructional Model Bybee et al 2006 This model promotes inquiry by guiding teachers in the design of lesson plans that are based upon cognitive psychology constructivist learning theory and best practices in science teaching Duran Education and Culture Learner Differences Secondary Science Pedagogy Culturally Relevant Science and Multicultural Education *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 **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 *PE Lab Exp(Noncons)Mod Chem 90* Tzimopoulo, 1990 *ChemDiscovery Teacher Edition* Olga I. Agapova, 2002 **Popular Science**, 1934-03 Popular Science gives our readers

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Table of Contents Flame Test Lab Answers

1. Understanding the eBook Flame Test Lab Answers
 - The Rise of Digital Reading Flame Test Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Flame Test Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Flame Test Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Flame Test Lab Answers
 - Personalized Recommendations
 - Flame Test Lab Answers User Reviews and Ratings
 - Flame Test Lab Answers and Bestseller Lists
5. Accessing Flame Test Lab Answers Free and Paid eBooks
 - Flame Test Lab Answers Public Domain eBooks
 - Flame Test Lab Answers eBook Subscription Services
 - Flame Test Lab Answers Budget-Friendly Options

6. Navigating Flame Test Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Flame Test Lab Answers Compatibility with Devices
 - Flame Test Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Flame Test Lab Answers
 - Highlighting and Note-Taking Flame Test Lab Answers
 - Interactive Elements Flame Test Lab Answers
8. Staying Engaged with Flame Test Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Flame Test Lab Answers
9. Balancing eBooks and Physical Books Flame Test Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Flame Test Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Flame Test Lab Answers
 - Setting Reading Goals Flame Test Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Flame Test Lab Answers
 - Fact-Checking eBook Content of Flame Test Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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