

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

Alfred T. Collette

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Flame Test Lab Answers:

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* Tzimopoulou, 1990. The Life Cycle of Everyday Stuff Mike Reeske, Shirley Watt Ireton, National Science Teachers Association, 2001. In the context of life cycles, these units use central science concepts to explore the energy, raw materials, and waste issues that are the history of any manufactured product. As students consider the trade-offs made at each step, they will learn to recognize the decisions made to balance economic, developmental, and environmental needs. 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, 1998-04-30 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

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Instructor Site License CD v2 5 0 13 185749 5 **When My Heart Was Wicked** Tricia Stirling, 2015-02-24 I used to be one of those girls The kind who loved to deliver bad news who d flirt with your boyfriend But now when I cast spells they re always for good 16 year old Lacy believes that magic and science can work side by side She s a botanist who knows how to harness the healing power of plants So when her father dies Lacy tries to stay with her step mother in Chico where her magic is good and healing She fears the darkness that her real mother Cheyenne brings out stripping away everything that is light and kind Yet Cheyenne never stays away for long Beautiful bewitching unstable Cheyenne who will stop at nothing not even black magic to keep control of her daughter s heart She forces Lacy to accompany her to Sacramento and before long the old Lacy starts to resurface But when Lacy survives a traumatic encounter she finds herself faced with a choice Will she use her powers to exact revenge and spiral into the darkness forever Or will she find the strength to embrace the light *Holt Chemistry* Ralph Thomas Myers, 2004 **Basic Laboratory Principles in General Chemistry** Fitzgerald B. Bramwell, 1990 **Virtual Chemlab** Brian F. Woodfield, Matthew C. Asplund, Steven Haderlie, 2006 Contains a full virtual lab environment as well as the pre arranged labs that are refer enced in the workbook and at the end of the chapter in the textbook Virtual ChemLab can be run directly from the CD or installed on the student s computer *Instructors Manual to Lab Manual* Ralph Petrucci, William Harwood, Geoffrey Herring, 2001 Science Instruction in the Middle and Secondary Schools Alfred T. Collette, 1993 New edition of a text for preservice and inservice teachers Covers background for science teaching teaching strategies and classroom management planning for instruction assessment and professional development Annotation copyright Book News Inc Portland Or General Chemistry Ralph H. Petrucci, 2007 General Chemistry Principles and Modern Applications is recognized for its superior problems lucid writing precision of argument and precise and detailed treatment of the subject Popular and innovative features include Feature Problems follow up A and B Practice Exercises to accompany every in chapter Example Focus On application boxes and new Keep in Mind marginal notes Every new copy of the Ninth Edition comes with a Student MediaPak which includes access to the Companion Website with GradeTracker available at <http://www.prenhall.com/petrucci> the Student Accelerator CD and the Virtual ChemLab Workbook and CD This package includes Basic Media Pack Wrap Companion WEbsite Grade Tracker Access Code Card Virtual ChemLab General Chemistry Student Lab Manual Workbook **English Communication for International Teaching Assistants** Greta Gorsuch, Colleen M. Meyers, Lucy Pickering, Dale T. Griffiee, 2016-08-26 In order to become successful communicators in undergraduate teaching environments in the United States nonnative English speaking graduate students require hands on and relevant practice Now in its second edition English Communication for International Teaching Assistants continues to provide constructive insights and versatile tools to facilitate such learning The authors convey the principals of cross cultural awareness within the classroom and emphasize the importance of discourse intonation in building rapport conveying meaning and structuring information The accompanying CD includes audio and video recordings of real

teaching settings that can be examined and dissected for successful discourse intonation practices Dozens of applied exercises interactive tasks and skills building problems address communication proficiencies and deficiencies Readers will transcribe and evaluate their own conversations in order to acquire strategies to become more effective speakers and to resolve communication breakdowns with undergraduate students As a valuable tool the ITA Performance Test is included along with its developmental theory and guidelines for its use *Holt Physical Science* Mapi M. Cuevas,1994

Laboratory Exercises in Microbiology Robert A. Pollack,Lorraine Findlay,Walter Mondschein,R. Ronald Modesto,2018-07-04 The microbiology laboratory is a place of diagnosis and discovery to students of nursing and allied health it is their opportunity to come face to face with some of the many microorganisms they will meet every day Laboratory Exercises in Microbiology provides a comprehensive yet efficient introduction to the techniques and microbial occupants of the lab maximizing each period with minimal preparation and more hands on training Rather than repeat the material students learn in their lecture course this book extends the learning experience with a focus on activities and experiments that promote a deeper understanding of microbiology concepts and principles This new Fifth Edition has been updated with new quick references and photomicrographs to further enhance student comprehension of all 27 exercises which are organized by theme to cover General Microscopy and Aseptic Technique Microbial Morphology and Differential Stains Microbial Control and Biochemistry Medical Microbiology and Food and Environmental Microbiology With an engaging style and a focus on active learning this book offers students a well rounded foundation in modern microbiology laboratory methods Air Engineering ,1967 Includes section called Air engineering newsletter superseding an earlier publication of that name **Big Book of Home Learning** Mary Pride,1991-07 Learn at home with exciting products for all school subjects New *Clinical Laboratory Science Review* Robert R. Harr,1994 Covers the major divisions of the medical technology clinical laboratory science certification examinations hematology immunology immunochemistry microbiology clinical chemistry body fluids and education and management Problem solving section for each chapter A study guide for use during and after training Includes over 1 500 multiple choice questions that allow the student to identify strengths weaknesses and gaps in knowledge base 50 color plates twice as many as the 1st edition Provides rationales for both correct and incorrect answers correct answer and rationale appear on the same page as the question and each question is followed by a test item classification Final examination to test retention A disk with a computerized mock certification examination with color images New section on laboratory mathematics

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