

# Identification of Metals: Flame Tests

*(Tate version)*

## INTRODUCTION:

When elements are heated to high temperatures, some of their electrons are excited to higher energy levels. These excited electrons can then fall back to lower energy levels, releasing the excess energy in packages called photons, or light quanta. The color of the emitted light depends on its energy. Blue light is more energetic than red light, for example. When heated, each element emits a characteristic pattern of light energies, which is useful for identifying the element. The characteristic colors of light produced when substances are heated in the flame of a gas burner are the basis of flame tests for several elements.

In this experiment, you will perform flame tests for several metallic elements.

## OBJECTIVES:

1. To observe the colors emitted by various metal ions.
2. To evaluate flame testing as a method of detection for metals.
3. To understand the relationship between energy of the electron level and the color of flame emitted.

## EQUIPMENT:

Safety goggles and apron  
Bunsen burner

Beaker of water  
Blue cobalt glass square

## MATERIALS:

0.25 M  $\text{LiNO}_3$ , lithium nitrate  
0.25 M  $\text{NaNO}_3$ , sodium nitrate  
0.25 M  $\text{KNO}_3$ , potassium nitrate  
0.25 M  $\text{Ca}(\text{NO}_3)_2$ , calcium nitrate  
0.25 M  $\text{Sr}(\text{NO}_3)_2$ , strontium nitrate

0.25 M  $\text{Ba}(\text{NO}_3)_2$ , barium nitrate  
0.25 M  $\text{Cu}(\text{NO}_3)_2$ , copper (II) nitrate  
Wooden splints, labeled  
Paper towels

## SAFETY:

1. Wear safety goggles and apron.
2. Do not burn things other than wooden splints
3. Extinguish wooden splints in the beaker of water provided.
4. Use caution when operating the Bunsen burner.

## PROCEDURE:

As you perform the experiment, record your observations in your data table.

1. Obtain one wooden splint per solution.
2. Place the wet end of the wooden splint into the burner flame at the hottest part of the flame.
3. Record flame color.
4. Repeat for each solution. When testing the  $\text{KNO}_3$  splint, record the color with and without the cobalt glass square in front of the flame.
5. Test for an unknown splint.

# Chapter 5 Flame Tests For Metals Answers

**Christopher Hawley**



## Chapter 5 Flame Tests For Metals Answers:

**Concepts of Earth Science & Chemistry Parent Lesson Plan** John Hudson Tiner, 2013-08-26 Concepts of Earth and Chemistry Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Earth Blending a creationism perspective of history with definitions of terms and identification of famous explorers scientists etc this book gives students an excellent initial knowledge of people and places encouraging them to continue their studies in depth Semester 2 Chemistry Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information *Survey of Science History & Concepts Parent Lesson Plan*, 2013-08-01 Survey of Science History Concepts Course Description Students will study four areas of science Scientific Mathematics Physics Biology and Chemistry Students will gain an appreciation for how each subject has affected our lives and for the people God revealed wisdom to as they sought to understand Creation Each content area is thoroughly explored giving students a good foundation in each discipline Semester 1 Math and Physics Numbers surround us Just try to make it through a day without using any It s impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It s amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia first hand during fun and informative experiments Exploring the World of Physics is a great tool for student who want to have a deeper understanding of the important and interesting ways that physics affects our lives Semester 2 Biology and Chemistry The field of biology focuses on living things from the

smallest microscopic protozoa to the largest mammal In this book you will read and explore the life of plants insects spiders and other arachnids life in water reptiles birds and mammals highlighting God s amazing creation You will learn about biological classification how seeds spread around the world long term storage of energy how biologists learned how the stomach digested food the plant that gave George de Mestral the idea of Velcro and so much more For most of history biologists used the visible appearance of plants or animals to classify them They grouped plants or animals with similar looking features into families Starting in the 1990 s biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped Like visual structures these reveal the underlying design of creation Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information

**Chemical Building Blocks** Michael J. Padilla, David V. Frank, John G. Little, Steve Miller, 2000 **Matter**, 1994 1995 2000 State Textbook Adoption Rowan Salisbury *Understanding and Developing Science Teachers' Pedagogical Content Knowledge* John Loughran, Amanda Berry, Pamela Mulhall, 2012-07-31 There has been a growing interest in the notion of a scholarship of teaching Such scholarship is displayed through a teacher s grasp of and response to the relationships between knowledge of content teaching and learning in ways that attest to practice as being complex and interwoven Yet attempting to capture teachers professional knowledge is difficult because the critical links between practice and knowledge for many teachers is tacit Pedagogical Content Knowledge PCK offers one way of capturing articulating and portraying an aspect of the scholarship of teaching and in this case the scholarship of science teaching The research underpinning the approach developed by Loughran Berry and Mulhall offers access to the development of the professional knowledge of science teaching in a form that offers new ways of sharing and disseminating this knowledge Through this Resource Folio approach comprising CoRe and PaP eRs a recognition of the value of the specialist knowledge and skills of science teaching is not only highlighted but also enhanced The CoRe and PaP eRs methodology offers an exciting new way of capturing and portraying science teachers pedagogical content knowledge so that it might be better understood and valued within the profession This book is a concrete example of the nature of scholarship in science teaching that is meaningful useful and immediately applicable in the work of all science teachers preservice in service and science teacher educators It is an excellent resource

for science teachers as well as a guiding text for teacher education Understanding teachers professional knowledge is critical to our efforts to promote quality classroom practice While PCK offers such a lens the construct is abstract In this book the authors have found an interesting and engaging way of making science teachers PCK concrete useable and meaningful for researchers and teachers alike It offers a new and exciting way of understanding the importance of PCK in shaping and improving science teaching and learning Professor Julie Gess Newsome Dean of the Graduate School of Education Williamette University This book contributes to establishing CoRes and PaP eRs as immensely valuable tools to illuminate and describe PCK The text provides concrete examples of CoRes and PaP eRs completed in real life teaching situations that make stimulating reading The authors show practitioners and researchers alike how this approach can develop high quality science teaching Dr Vanessa Kind Director Science Learning Centre North East School of Education Durham University

*Focus on physical science* Charles H. Heimler, 1989      **Chemistry** John McMurry, 1998      **Excel HSC Chemistry** Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39 95 PAGES 428 pp SPECIFICATION Softcover perfect bound 280 mm x 210 mm STATUS New edition PUBLICATION DATE April 2008 The EXCEL HSC Chemistry guide is directly linked to the syllabus with every single dot point of the HSC Chemistry syllabus appearing in the margin of the book You can write in the guide so your study is focused and your notes are structured This guide comes in a brand new format that makes even better use of your study time up to date coverage of the core topics plus 3 Option topics Industrial Chemistry Shipwrecks Corrosion and Conservation and Forensic Chemistry this guide is organised just like the HSC syllabus so the students learn to section the theoretical part is under routine headings and the students section the practical part is under headings like First hand Second hand and Investigations and Problem Solving %this way you will be able to see at a glance what the theoretical and practical work is all main headings in each chapter 1 1 2 1 etc are directly from the syllabus word for word %this way you can easily match the Excel guide to the syllabus an alphabetical list of all the key definitions and concepts you should know from each chapter %an efficient way of learning all the definitions in one go chapter syllabus checklist with every single dot point listed in checklist form for each chapter %a fantastic way of testing that you know all the work hundreds of key concept questions with answers %questions that test you recall of knowledge in each chapter HSC type questions for every section in each chapter with clock icons to tell you how much time you will have to answer the questions in the HSC %this way you can test yourself on HSC type questions under HSC type time pressure an examiner maximiser feature ticks to show the mark distribution and answers to all HSC type questions %all you need to answer HSC type questions two sample HSC papers with an examiner maximiser feature plus answers %not one but two up to date sample papers the Excel syllabus summary notes a detachable section at the end of the guide where every single dot point of each chapter is summarised for you % a comprehensive and compact summary of the whole course in 32 pages

**Laboratory Notes, Non-metals** Edgar Fahs Smith, Harry Frederick Keller, 1890      **Building Block** Prentice-Hall

Staff,1994 *Merrill Chemistry* Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 **A Qualitative Analysis Supplement** Kenneth W. Whitten,2004 As in previous editions clearly explained problem solving strategies continue to be the strength of this student friendly text which can be viewed as a traditional general chemistry text Examples of this are that the text covers thermodynamics normally a topic split into two parts and covered in two different semesters in one chapter The book also follows a standard narrative example problem format has a solid traditional writing style and promotes problem solving However the authors have added elements to reflect changes in chemical education *Science* ,2001 American Artisan ,1921 **Pathways in Science: Chemistry (Pt. 1-3)** Joseph M. Oxenhorn,1970 McGraw-Hill Education SAT Subject Test Chemistry, Fifth Edition Thomas A. Evangelist,2018-11-23 We Will Help You Get Your Best Score With more than 125 years of experience in education McGraw Hill Education is the name you trust to deliver results This MHE guide is the most comprehensive and relevant SAT Subject Test prep tool on the market This edition provides 5 full length practice tests with thorough answer explanations A comprehensive review of all Chemistry concepts essential to success on the SAT Subject Test An extensive overview of the format of the test based on the most recent SAT Chemistry exams Unique test taking strategies and tips recommended by teachers to help you raise your score A customizable study plan to help you maximize the time you have to prepareTOP 40 LISTThe book includes a description of the 40 topics that are most crucial to know before you take the Subject Test in Chemistry TEST TAKING STRATEGIESLearn unique tips developed by teachers to help you avoid the test maker s traps The Colliery Engineer and Metal Miner ,1896 **Hazardous Materials Monitoring and Detection Devices** Christopher Hawley,2018-09-13 Hazardous Materials Monitoring and Detection Devices Third Edition is designed for a variety of industries Although primarily written for emergency responders hazardous materials responders firefighters and law enforcement officers the text applies to a number of other occupations Persons who work in an industrial facility or who are involved in health and safety such as industrial hygienists or safety managers will find this text very helpful Persons involved in environmental recovery or in other areas where monitoring is used will benefit This text covers monitors and detection devices for both hazardous materials and weapons of mass destruction WMD It also provides these agencieswith a broad spectrum picture of monitoring one that can help with purchasing decisions and in the implementation of a monitoring strategy This text covers a wide variety of detection devices some basic and some advanced An important part it is how to use these devices tactically and how to interpret the readings The backbone of the text is the discussion of risk based response RBR which is a common approach to emergency response Many response agencies follow a risk based response and NFPA 472 Standard for Competence of Responders to Hazardous Materials Weapons of Mass Destruction Incidents includes the recommendation to follow this method The goal of RBR is to assist the responder in making appropriate decisions regarding response tactics Hazardous Materials Monitoring and Detection Devices Third Edition covers the thought process behind RBR the technology that runs monitoring devices and how

they work and more importantly when they do not work in order to keep you as safe as possible  
Mapi M. Cuevas,1994      The Painter's Laboratory Guide George Henry Hurst,1902

**Holt Physical Science**

## Reviewing **Chapter 5 Flame Tests For Metals Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Chapter 5 Flame Tests For Metals Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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