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Name:	KEY	Date:	Period:

# 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:

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

to the first time to the second secon	
If chloride compounds are not available, metal nitrate	
compounds may be substit	uted.
Use dilute or approximately 0.1 M solutions	
Unknowns:	
Number the beakers 1-12.	
Add solutions as follows:	
1. Strontium Chloride	7. Calcium Chloride
2. Calcium Chloride	8. Strontium Chloride
3. Potassium Chloride	9. Barium Chloride
4. Barium Chloride	<ol><li>Potassium Chloride</li></ol>
5. Lithium Chloride	11. Sodium Chloride
<ol><li>Sodium Chloride</li></ol>	<ol> <li>Lithium Chloride</li> </ol>
	If chloride compounds are compounds may be substit  Use dilute or approximatel  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

- 1. Put on your safety goggles and an apron.
- Obtain a wood splint and the barium chloride solution.
- Dip the wood splint into the solution and allow it to soak for 1-2 minutes.
- Light Bunsen Burner. USE CAUTION!
- Remove the splint from the solution and hold the end of the splint into the flame. Do not burn the splint.
- Observe and record the color of the flame.
- Repeat steps 2-6 using the remaining chloride solutions.
- 8. Obtain an unknown solution from your teacher. Record the number of your unknown.
- 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.

# **Flame Test Lab Answer Key**

**Christian Drosten** 

#### Flame Test Lab Answer Key:

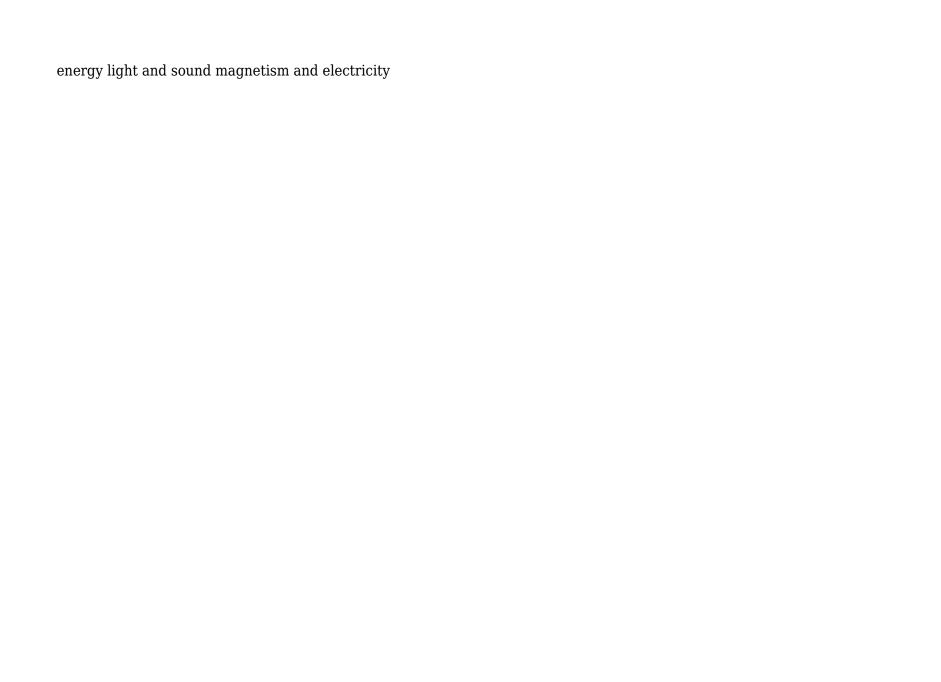
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Teacher Personal Theorizing Gail MacCutcheon,1992-01-01 This book examines the relationship between teacher theorizing and teacher action as illustrated by the curricular and instructional practices of teachers The authors show that all teaching is guided by theory developed by the teachers Teachers could not begin to practice without some knowledge of the context of their practice and without ideas about what can and should be done in those circumstances In this sense teachers are guided by personal practical theories that structure their activities and guide them in making decisions This literature is very significant in explaining and interpreting many phenomena of schooling such as why teachers alter curriculum documents and other policies how inservice education can be improved how supervisors can help teachers to improve their practices and how administrators can become leaders to improve education This perspective has broad and specific implications for every facet of education Those interested in teacher education and development in supervision in curriculum

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than 0 2% of all U S residential upholstery fabric is treated with flame retardant FR chemicals The Consumer Product Safety Act of 1972 created the U S Consumer Product Safety Commission CPSC as an independent federal regulatory agency whose mission is to protect the public from unreasonable risks of injury and death associated with consumer products CPSC also administers the Flammable Fabrics Act under which it regulates flammability hazards and the Federal Hazardous Substances Act FHSA which regulates hazardous substances including chemicals In 1993 the National Association of State Fire Marshals petitioned CPSC to issue a performance based flammability standard for upholstered furniture to reduce the risk of residential fires The Commission granted that portion of the petition relating to small open flame ignition risks In response to concerns regarding the safety of FR chemicals Congress in the fiscal year 1999 appropriations report for CPSC requested that the National Research Council conduct an independent study of the health risks to consumers posed by exposure to FR chemicals that are likely to be used in residential upholstered furniture to meet a CPSC standard The National Research Council assigned the project to the Committee on Toxicology COT of the Commission on Life Sciences Board on Environmental Studies and Toxicology COT convened the Subcommittee on Flame Retardant Chemicals which prepared this report Subcommittee members were chosen for their recognized expertise in toxicology pharmacology epidemiology chemistry exposure assessment risk assessment and biostatistics Toxicological Risks of Selected Flame Retardant Chemicals is organized into 18 chapters and two appendices Chapter 2 describes the risk assessment process used by the subcommittee in determining the risk associated with potential exposure to the various FR chemicals Chapter 3 describes the method the subcommittee used to measure and estimate the intensity frequency extent and duration of human exposure to FR chemicals Chapters 4 19 provide the subcommittee's review and assessment of health risks posed by exposure to each of the 16 FR chemicals Data gaps and research needs are provided at the end of these chapters Scientific and Technical Aerospace Microgravity Combustion Howard D. Ross, 2001-09-03 This book provides an introduction to understanding Reports, 1995 combustion the burning of a substance that produces heat and often light in microgravity environments i e environments with very low gravity such as outer space Readers are presented with a compilation of worldwide findings from fifteen years of research and experimental tests in various low gravity environments including drop towers aircraft and space Microgravity Combustion is unique in that no other book reviews low gravity combustion research in such a comprehensive manner It provides an excellent introduction for those researching in the fields of combustion aerospace and fluid and thermal sciences An introduction to the progress made in understanding combustion in a microgravity environment Experimental theoretical and computational findings of current combustion research Tutorial concepts such as scaling analysis Worldwide microgravity research findings Power Practice: Physical Science, eBook Beth Barber, 2004-09-01 This book supplements and enriches classroom teaching to enhance students understanding of vocabulary functions and fundamental processes of physical sciences work Topics include force and motion chemistry atoms and elements scientific process simple machines



The book delves into Flame Test Lab Answer Key. Flame Test Lab Answer Key is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Flame Test Lab Answer Key, encompassing both the fundamentals and more intricate discussions.

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