

Name: _____ Period: _____

FLAME TEST LAB

PURPOSE: To use various element salts in a flame test to determine the temperature and brightness of a star using the line spectra of each element.

HYPOTHESIS: If I use different salts in a flame test, then _____

MATERIALS:

- Various elemental salts Beaker/Bunsen Burner Nichrome Wire
- Diluted Hydrochloric acid(HCl) Water/Paper towel piece

PROCEDURE:

1. Dip the nichrome wire into the dilute HCl acid and then hold it in the flame until red hot.
2. Dip the nichrome wire into the HCl acid again and then take the wire and scrape one of the element salts onto the loop of the wire. You will test only **one** salt at a time.
3. Place the wire into the Bunsen burner flame and observe.
4. Repeat steps 1-3 once again.
5. **Record your observation onto your data table: Flame color and Line Spectra (From chart).**
6. Dip the wire into the dilute HCl while it is still hot, this step is to clean the wire for the next group.
7. Repeat steps 2-6 for each of the element salts. You will have **3 minutes** per station (1 salt per station).

DATA TABLE:

SALT	METAL	SAMPLE	FLAME COLOR	LINE SPECTRA(FROM CHART)
Sodium Chloride	Sodium	A		
Calcium Chloride	Calcium	B		
Potassium Chloride	Potassium	C		
Strontium Chloride	Strontium	D		
Cupric Chloride	Copper	E		
Lithium Chloride	Lithium	F		

ANALYSIS:

Use your data from above, along with the Hertzsprung-Russel diagram to answer the following questions.

1. What colors did you observe? _____
2. Based on color and your H-R diagram, place the samples in the appropriate categories(Main sequence, white dwarf, giant, supergiant):
Sample A: _____
Sample B: _____
Sample C: _____
Sample D: _____
Sample E: _____
Sample F: _____
3. If sample A were a white dwarf, what star(s) could it be? _____
4. If sample B were a main sequence star, what star(s) could it be? _____
5. If sample D were Betelgeuse, then it would be classified as a _____ star.
6. The giant star Mira could have been which sample? _____
7. Which of these samples from the data table would have the highest surface temperature? _____
Why? _____

Flame Test Lab Worksheet

Pharmacy CPA



Flame Test Lab Worksheet:

Flip Your Classroom Jonathan Bergmann, Aaron Sams, 2012-06-21 Learn what a flipped classroom is and why it works and get the information you need to flip a classroom You ll also learn the flipped mastery model where students learn at their own pace furthering opportunities for personalized education This simple concept is easily replicable in any classroom doesn't cost much to implement and helps foster self directed learning Once you flip you won't want to go back *Lab Manual for Investigating Chemistry* David Collins (Ph. D.), Matthew Johll, 2008-12-02 While many of the core labs from the first edition have been retained a renewed focus on the basics of chemistry and the scientific process create an even more detailed supplemental offering *Science and Mathematics Lab Manual*, 2002-05 Includes 30 labs for students to use to connect mathematics to science concepts 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 **Practical Chemistry Labs** Leonard Saland, 1989 Features self contained step by step activities using common materials and covering topics from food chemistry to papermaking and electrochemistry Illustrates the connection between the real world and chemistry concepts such as solutions chemistry acids and bases and more Includes teacher notes quizzes and answers to help monitor student progress **The Basics of Investigating Forensic Science** Kathy Mirakovits, Gina Londino, 2017-08-02 Once confined to four year colleges and graduate schools forensic science classes can now be found in local high schools as well as in two year community colleges The Basics of Investigating Forensic Science A Laboratory Manual is designed for the beginning forensic science student and for instructors who wish to provide a solid foundation in **Carolina Science and Math** Carolina Biological Supply Company, 2003 Physical Science Laboratory Program Globe Fearon, 1999 **Te HS&T a** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 Te HS&T J Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 Practical Automation for the Clinical Laboratory Wilma L. White, Marilyn M. Erickson, Sue Cassell Stevens, 1972 The Ultimate Pharmacy Calculations Guide Pharmacy CPA, 2014-05-28 This book has been created for students wanting to take pharmacy registration assessment exams and become a licensed pharmacist Calculations are often considered as the hardest part of any pharmacy orientated exam and is often the main reason for exam failure For this reason we have collected a team of highly skilled pharmacy professionals to compile and refine this book to ensure it presents what you really need to know In this book we explore the wide range of questions which can be presented during exams such as the GPhC Naplex PEBC FPGEE and many more The book not only contains questions and learning resources but also worksheet for you to practically apply the knowledge you have learnt The key sections in this book include The

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Once, in a Town Called Moth Trilby Kent, 2016-09-06 Ana is not your typical teenager She grew up in a tiny Mennonite colony in Bolivia and her mother fled the colony when Ana was a young girl Now Ana and her father have also fled and Ana doesn't know why She only knows that something was amiss in their tight knit community Arriving in Toronto Ana has to fend for herself in this alien environment completely isolated in a big city with no help and no idea where to even begin But begin she does she makes a friend then two She goes to school and tries to understand the myriad unspoken codes and rules She is befriended by a teacher She goes to the library the mall parties And all the while she searches for the mother who left so long ago and tries to understand her father also a stranger in a strange land with secrets of his own This is a beautifully told story that will resonate with readers who have struggled with being new and unsure in a strange place even if that place is in a classroom full of people they know Ana's story is unique but universal strange but familiar extraordinary but ordinary a fish out of water tale that speaks to us all

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