

FLAME TEST LAB PROCEDURE

Materials & Equipment

Safety Goggles

Gloves

Beakers, 250-mL, 2

Matches

Weighing dishes, 6

Wooden splints soaked in water, 6

Water, distilled or deionized, 250 mL

Calcium chloride, $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, 1–1.5 g

Copper chloride, $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$, 1–1.5 g

Lithium chloride, LiCl , 1–1.5 g

Potassium chloride, KCl , 1–1.5 g

Sodium chloride, NaCl , 1–1.5 g

Strontium chloride, $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$, 1–1.5 g

Procedure:

1. Put on Safety Goggles.
2. Wear gloves when handling chemicals.
3. Obtain a 250-mL beaker about half-full with distilled or deionized water. Obtain six wooden splints that have been soaked in distilled or deionized water. Place them in this beaker of water to continue soaking at your lab station.
4. Fill a second 250-mL beaker about half-full with tap water. Label this beaker "rinse water".
5. Obtain six weighing dishes labeled " CaCl_2 ", " CuCl_2 ", " LiCl ", " NaCl ", " KCl ", " SrCl_2 ". Each contains a small scoopful (about 1–1.5 g) of each metallic solid in the corresponding weighing dish.
6. Dip the soaked end of one of the wooden splints in one of the metallic salts.
7. Light a match and then place the "dipped" wooden splint into the flame. Observe the color of the flame. Allow the splint to burn until the color fades. Try not to allow any of the solid to fall onto your desk. If necessary, repeat the test with the same splint and salt.
8. Immerse the wooden splint in the "rinse water" to fully extinguish it, as well as the match. Then discard both into the trash.
9. Record your observations for the flame color produced by the metallic salt in the Data Table.
10. Repeat Steps 6–8 for the other five metallic salts. Record your observations for the flame color produced by each metallic salt in the Data Table.
11. Clean up your area, put everything away, and wash your hands before leaving the lab.

Representative Wavelength, nm	Wavelength Region, nm	Color
410	400–425	Violet
470	425–480	Blue
490	480–500	Blue-green
520	500–560	Green
565	560–580	Yellow-green
580	580–585	Yellow
600	585–650	Orange
650	650–700	Red

Figure 1.

Flame Test And Electron Configuration Experiment Worksheet Answers

Lingsheng Yao



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Table of Contents Flame Test And Electron Configuration Experiment Worksheet Answers

1. Understanding the eBook Flame Test And Electron Configuration Experiment Worksheet Answers
 - The Rise of Digital Reading Flame Test And Electron Configuration Experiment Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Flame Test And Electron Configuration Experiment Worksheet 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 And Electron Configuration Experiment Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Flame Test And Electron Configuration Experiment Worksheet Answers
 - Personalized Recommendations
 - Flame Test And Electron Configuration Experiment Worksheet Answers User Reviews and Ratings
 - Flame Test And Electron Configuration Experiment Worksheet Answers and Bestseller Lists
5. Accessing Flame Test And Electron Configuration Experiment Worksheet Answers Free and Paid eBooks
 - Flame Test And Electron Configuration Experiment Worksheet Answers Public Domain eBooks
 - Flame Test And Electron Configuration Experiment Worksheet Answers eBook Subscription Services
 - Flame Test And Electron Configuration Experiment Worksheet Answers Budget-Friendly Options
6. Navigating Flame Test And Electron Configuration Experiment Worksheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Flame Test And Electron Configuration Experiment Worksheet Answers Compatibility with Devices
 - Flame Test And Electron Configuration Experiment Worksheet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Flame Test And Electron Configuration Experiment Worksheet Answers
 - Highlighting and Note-Taking Flame Test And Electron Configuration Experiment Worksheet Answers
 - Interactive Elements Flame Test And Electron Configuration Experiment Worksheet Answers

8. Staying Engaged with Flame Test And Electron Configuration Experiment Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Flame Test And Electron Configuration Experiment Worksheet Answers
9. Balancing eBooks and Physical Books Flame Test And Electron Configuration Experiment Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Flame Test And Electron Configuration Experiment Worksheet Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Flame Test And Electron Configuration Experiment Worksheet Answers
 - Setting Reading Goals Flame Test And Electron Configuration Experiment Worksheet Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Flame Test And Electron Configuration Experiment Worksheet Answers
 - Fact-Checking eBook Content of Flame Test And Electron Configuration Experiment Worksheet 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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learning sciences marzano center april 2013 - Mar 15 2023

web the 41 instructional categories are organized into 9 design questions dqs and further grouped into 3 lesson segments to define the observation and feedback protocol domain 2 planning and preparing domain 3 reflecting on teaching domain 4

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web as we move through the marzano framework it is necessary to explain each design question and introduce some important factors regarding it s attached elemen