

## 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

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

#### Materials: (per lab group)

10 ml dilute solutions of the following:

Barium Chloride  
Calcium Chloride  
Lithium Chloride  
Potassium Chloride  
Sodium Chloride  
Strontium Chloride  
Unknown Solution

7 Wood Splints  
1 Bunsen Burner  
Safety Goggles & Aprons

#### Note:

If chloride compounds are not available, metal nitrate compounds may be substituted.

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    | 10. Potassium Chloride |
| 5. Lithium Chloride   | 11. Sodium Chloride    |
| 6. Sodium Chloride    | 12. Lithium Chloride   |

#### Procedure

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

**Tao Wei**



## Flame Test Lab Worksheet:

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

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Flame Test Lab Worksheet
- Chapter 2: Essential Elements of Flame Test Lab Worksheet
- Chapter 3: Flame Test Lab Worksheet in Everyday Life
- Chapter 4: Flame Test Lab Worksheet in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Flame Test Lab Worksheet. This chapter will explore what Flame Test Lab Worksheet is, why Flame Test Lab Worksheet is vital, and how to effectively learn about Flame Test Lab Worksheet.

3. In chapter 2, the author will delve into the foundational concepts of Flame Test Lab Worksheet. The second chapter will elucidate the essential principles that need to be understood to grasp Flame Test Lab Worksheet in its entirety.

4. In chapter 3, this book will examine the practical applications of Flame Test Lab Worksheet in daily life. The third chapter will showcase real-world examples of how Flame Test Lab Worksheet can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Flame Test Lab Worksheet in specific contexts. This chapter will explore how Flame Test Lab Worksheet is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Flame Test Lab Worksheet. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Flame Test Lab Worksheet.

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