

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

**J Rink**

A red circular graphic with a gradient, appearing as a stylized flame or a light source, positioned to the right of the author's name.

## Flame Test Lab Worksheet:

## The Enigmatic Realm of **Flame Test Lab Worksheet**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Flame Test Lab Worksheet** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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