

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

Kathy Mirakovits, Gina Londino

A red circular graphic with a gradient, appearing as a stylized flame or a light effect, positioned to the right of the author names.

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