LAB - Part One	IA	R		Pa	ŕŧ	O	ne
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Name			
Maille			

Element's Colorful Clues Flame Test

Compound	Flame Color
Sodium Chloride (NaCl)	
Potassium Chloride (KCI)	
Strontium Chloride (SrCl2)	
Calcium Chloride (CaCl2)	
Copper Chloride (CuCl2)	
Copper Sulfate (CuSO4)	

Questions

#1 – Is the element Chlorine (CI) responsible for the color produced in each of the flames? Why or why not?

#2 – Why is it necessary to make sure you clean off your nichrome wire loop after each sample?

#3 – Was the color that the flame produced similar to the color of the sample before you put it in the flame?

#4 – Using the periodic table, is there a pattern between the location of the elements and their color? If so, how?

LAB-Part I ELEMENTS MINI LAB

Purpose: to identify the elements in a chemical reaction and to explain what happens during a reaction in terms of elements.

Materials: balance, graduated cylinder, flask, aluminum pans, candle, match, strike plate, baking soda, vinegar

Procedure:

- 1. Pour 20 ml of vinegar into a graduated cylinder. Pour this into a flask.
- 2. Mass about 3 grams of baking soda in an aluminum pan.
- 3. Light the candle.
- 4. Pour the baking soda into the flask. Wait a few moments. A gas will form in the flask.
- 5. Try putting out the candle flame with the gas contained in the flask.
- 6. Clean the lab station. Return equipment to the cart.
- 7. Begin the lab report.

Questions:

- 1. After you mixed the two ingredients, did a gas form in the flask? How do you know?
- 2. Was the gas heavier than air? How do you know?
- 3. Was the gas flammable? How do you know?
- 4. Did a chemical change take place? How do you know?
- 5. Make a list of all the elements involved in this reaction.

Lab Report: Include; names, hour, title, purpose, answers to questions.