Name:	Date:	Period:

Salt Flame Test

Problem Statement:

Background Information:

Element	Color before adding energy	Flame color
LiCl		
CuCl ₂		
CaCl ₂		
KCl		
CoCl ₂		
SrCl ₂		
Borax		
NaCl		
Unknown 1		
Unknown 2		
Unknown 3		
Procedures	1	Diagram

Procedures:

<u>Diagram:</u>

- 1. Obtain Sample (one at a time)
- 2. Dip wire into the solution
- 3. Place solution end of paper clip into the flame
- 4. Record the color and clean end of wire
- 5. Repeat steps 1-4 for the remaining samples

Material List:

- 1. Safety Goggles
- 2. Bunsen Burner
- 3. Wire with cork
- 4. Samples of elements

Conclusion Questions:

- 1. What is one way to identify an unknown salt or powder?
- 2. What type of property causes a salt to burn a different color?

3. How could the color of salt burning relate to fireworks, pottery, and colored magazines?

4. What are the names of the 3 unknown substances?

#2:	

#3 _____

5. What do you think would happen if you had 2 different salts mixed together and you performed a flame test?