Name	:Period:Date:					
	<u>Ion Flame Test Demo</u>					
Α.	Before the demonstration: The situation - There are several types of ionic compounds. E one will be dissolved in a small amount of methanol. The solut will be burned and we will make observations about the color of the flame.  Determining the Independent and Dependent variables:  1. The independent variable in this experiment is:					
	2. The dependent variable in this experiment is:	·				
С	. Write a problem statement:					
	1. How will the	(I.V.)				
	effect the	?(.V.d)				
D	create a hypothesis using the If/then format	:				
		·				
	E. What is the control group used in this demoi	nstration?				

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## II. During the demonstration: Data and Observations

Compound Name	Compound Formula	Positive Ion	Negative Ion	Flame test color		
Methanol				1621 COIOL		
	CH₃OH	none	none			
Barium chloride	BaCl <sub>2</sub>	Ca <sup>2+</sup>	Cl <sup>-1</sup>			
Calcium chloride	CaCl <sub>2</sub>	Ca²⁺	Cl <sup>-1</sup>			
Copper chloride	CuCl <sub>2</sub>	Cu²⁺	Cl <sup>-1</sup>			
Potassium chloride	KCl	K <sup>1+</sup>	Cl <sup>-1</sup>			
Lithium chloride	LiCl <sub>2</sub>	Li <sup>1+</sup>	Cl <sup>-1</sup>			
Sodium chloride	NaCl	Na <sup>1+</sup>	Cl <sup>-1</sup>			
Strontium chloride	SrCl <sub>2</sub>	Sr <sup>2+</sup>	Cl <sup>-1</sup>			
	Record the flame color and determine what					
Unknowns:	salt is in the balloon based on the data above.					
	Compound			Flame		
	formula			color		
Control	none	none	none			
Unknown #1						
Unknown #2						
Unknown #3						