Chapter 13			
T	ransparency Worksheet		10
		Name	
Ion Formation		Class	Date
1.	(a) Which of the models have stable octets?		
	(b) Explain how you know.		
2.	(a) Describe the charge on each ion and explain why it is either positive or negative.		
	(b) Identify the <i>anion</i> and <i>cation</i> .		
3.	. What are the properties of ionic compounds?		
4.	Describe how sodium and chlorine form an ionic bond.		
5.	Name and identify the physical and chemical properties of the family to which sodium belongs.		
6.	(a) Write the electron configuration for a sodium atom.		
	(b) Write the electron configuration for a sodium ion.		
7.	Name and identify the physical and chemical properties of the family to which chlorine belongs.		
8.	(a) Write the electron configuration for a chlorine atom.		
	(b) Write the electron configuration for a chlorine ion.		
C	ritical Thinking		
9.	How would you explain the high melting point of NaCl?		

10. Using electron dot symbols, show the formation of an ionic bond between the following elements: Na and Cl, Pb and I, Ca and O, Fe and S. Use the back of this worksheet for your drawing.