Periodic Table Basics	Name	(
1. Which elements had complete outer shells? Give the		
2. What do you notice about the location of the elemen	its in #1?	
3. Which elements had only one valence electron?		
4. What do you notice about the location of the elemen	ts in #3?	
5. What do you notice about the number of valence elerow or period in the periodic table? (Na → Mg → Al →	ctrons as you move from left to right across a Si → P → S → Cl → Ar)	
6. What do you notice about the number of energy I column in the periodic table? (H $\rightarrow$ Li $\rightarrow$ Na)	evels or shells as you move down a group or	
7. Elements are organized into families according to the elements that you used in Step 5 that belong to e electrons. Give the name and symbol for each element	ach family based on the number of valence	
Alkali Metals - 1 valence electron	&	
Alkaline Earth Metals - 2 valence electrons	•	
Boron Family - 3 valence electrons		
Carbon Family - 4 valence electrons	&	
Nitrogen Family - 5 valence electrons	&	
Oxygen Family - 6 valence electrons		
Halides - 7 valence electrons		
Noble Gases - Complete outermost shell		
	, &	
8. What do you notice about the location of the element	s in each family?	
9. How would you classify hydrogen? Why?		
10. Predict the number of valence electrons for each ele of Elements. You will need to use the table in your text	ment based on its location in the Periodic Table book.	(
Barium = Lead = Xenon	= Potassium =	