Periodic Table Basics

Na	lame:	Date:	
	• This worksheet is to be completed based on your Bohr diagram	activity	
1.	Which elements had complete outer shells? Give the name and symbol for each.		
2.	. Which elements had only one valence electron?	,	
3.	What do you notice about the number of valence electron row or period in the periodic table? (Na \rightarrow Mg \rightarrow Al \rightarrow		
4.	What do you notice about the number of energy levels a column or group in the periodic table? (H \rightarrow Li \rightarrow Na)	ns γou move from top to bottom down a	
5.	 Elements are organized into families according to their p the elements that you used in step 3 that belong to each electrons. Give the name and symbol for each element. Alkali Metals (1 valence electron): 	family based on the number of valence	
	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 Shelss):	, &	

6. How would you classify Hydrogen? Why?

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7. Predict the number of valence electrons for each element based on its location in the Periodic Table of Elements. Look at your periodic table.

Barium =	Lead =	Xenon =	Potassium =
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