



Name:

10/14/08

Assignment #13: Using the Periodic Table

1. Find the following elements. List the symbol, number of protons, neutrons, and electrons. Assume that all atoms are electrically neutral.

Name	Symbol	Protons	Neutrons	Electrons
Sodium				
Chlorine				
Carbon				
Fluorine				
Nitrogen				
Potassium				
Boron				
Beryllium				
Neon				

2. How many protons and electrons will be present in the following Ions?

Symbol of Ion	Element Name	Protons	Electrons
O^{2-}			
Li^{+}			
Ca^{2+}			
Al^{3+}			
N^{3-}			
C^{4+}			
Si^{4-}			
Kr^{+}			
S^{2-}			
P^{3-}			
Ge^{4+}			



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3. Use the periodic table to complete the following table (assume all atoms are neutral).

Atomic Number	Atomic Symbol	# of Electrons	# of Electron Shells	# of Valence Electrons	Oxidation Number
16					
7					
17					
1					
15					
6					
18					
8					
19					
14					
3					
20					
56					
9					
13					
5					
38					
2					
88					
12					
10					
4					
11					