Chemistry I 2005			
	orksheet 4-2	Name	
Electron Arrangements		Period	
Glencoe Chemistry pp. 135-141, 150-162			
Clenese Chemistry pp. 100 113, 100 102			
 Describe what each of the following contributed to the development of the modern periodic table. Newlands 			
	b. Meyer & Mendeleev		
	c. Moseley		
2.	2. Identify each element as a metal, metalloid, or nonmetal.		
	a. fluorine		
	b. germanium	e. lithium	
	c. zinc		
3.	a. Circle the transition metals below. magnesium titanium	chromium mercury aluminum	
	b. Which block (s, p, d, or f) are the transition metals found?		
4.	. Give two examples of elements for each category.		
	11		
	b. halogens		
	c. alkali metals		
	 d. alkaline earth metals 		
5.	What is an atomic orbital? How are s orbitals d	ifferent from p orbitals?	
6.	Briefly discuss the difference between an orbit is quantum mechanical view of the atom (Schrodi		
7.	a. What are valence electrons?		

8. Explain why the s-block of the periodic table is two groups wide, the p-block is six groups wide, and the d-block is ten groups wide.

b. Explain how an atom's valence electron configuration determines its place on the periodic

table.

9. Why do the elements potassium and sodium have similar chemical and physical properties?

potassium ____ carbon ____ oxygen _

c. List the number of valence electrons for the following atoms: