	Name	:Per:					
Writing Electron Configurations							
Element	Electron Configuration Notation (Do this column 1 st !)	Noble-Gas Notation					
1. Li							
2. F							
3. Ne							
4. Si							
5. Ti							
6. Br							
7. Pb	Do Noble gas notation only (too long)						
8. U	Do Noble gas notation only (too long)						

Directions: Fill in the following table based on each noble gas configuration

Noble Gas Configuration	Period (Row)	Block (s,p,d,f)	Group Number	# of Valence electrons	Identify the Element
9. [He]2s ² 2p ¹					
10. [Ne]3s ² 3p ⁵					
11. [Ar]4s ² 3d ⁶					
12. [Kr]5s ¹					
13. [Xe]6s ² 4f ¹⁴ 5d ¹⁰					

14. Why is the $\frac{4s^2}{s}$ filled with electrons before the $\frac{3d^6}{s}$ as shown in this noble gas configuration ($\frac{[Ar]4s^23d^6}{s}$)?

15. a. What are valence electrons? Why are valence electrons so important to chemists?

b. How can one use the periodic table to determine the number of valence electrons for an atom?