

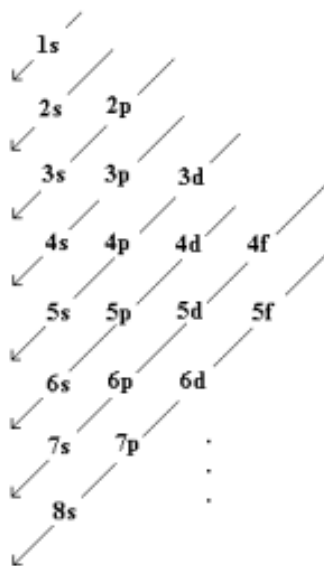
## Electron Configuration

### Practice Sheet # 9

**Electron Configuration:** shows the written language of how electrons are arranged in the orbitals and energy shells of the atom

- Electrons in the orbitals represented by the superscript number.

**Electron Configuration**



1. Complete the following table:

Element	Symbol	# Electrons	Electron Configuration Notation
Hydrogen			
Helium			
Lithium			
Beryllium			
Boron			
Carbon			
Nitrogen			
Oxygen			

Name: \_\_\_\_\_ Per \_\_\_\_\_

<b>Fluorine</b>			
<b>Neon</b>			
<b>Sodium</b>			
<b>Magnesium</b>			

2. Give the electronic configuration notation and the noble gas notation for the following elements:

<b>Element</b>	<b>Electron Configuration Notation</b>	<b>Noble Gas Configuration</b>
<b>Be</b>		
<b>F</b>		
<b>Na</b>		
<b>P</b>		
<b>Ti</b>		

3. Give the Electron configuration and the noble gas notation for the following IONS!

<b>Element</b>	<b>Electron Configuration Notation</b>	<b>Noble Gas Configuration</b>
<b>Rb<sup>+</sup></b>		
<b>Ca<sup>2+</sup></b>		
<b>I<sup>-</sup></b>		
<b>N<sup>3-</sup></b>		
<b>Li<sup>+</sup></b>		

4. What is the purpose of electronic configuration? What does it represent?