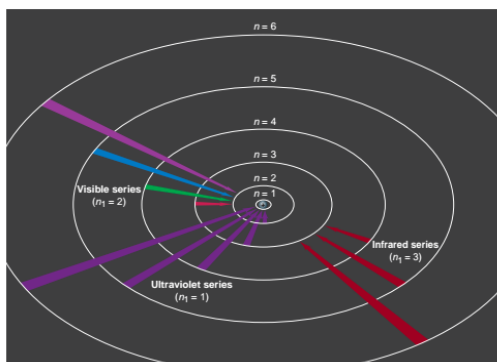


## Electronic Configuration Project

- 1- Look at the periodic table: Choose one element from this list: Li, Be, Na.  
Choose another element from this list: O, F, Cl.
- 2- Draw the atom of each element (see below).
- 3- Show the nucleus (protons and neutrons) and the energy levels.
- 3- Distribute the electrons on the energy levels.
- 4- Show the sub levels and the orientations of the electrons.



**TABLE 6.3** Electron Configurations of Several Lighter Elements

Element	Total Electrons	Orbital Diagram				Electron Configuration
		1s	2s	2p	3s	
Li	3	$\uparrow\downarrow$	$\uparrow$	$\square$ $\square$ $\square$	$\square$	$1s^2 2s^1$
Be	4	$\uparrow\downarrow$	$\uparrow\downarrow$	$\square$ $\square$ $\square$	$\square$	$1s^2 2s^2$
B	5	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow$ $\square$ $\square$	$\square$	$1s^2 2s^2 2p^1$
C	6	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow$ $\uparrow$ $\square$	$\square$	$1s^2 2s^2 2p^2$
N	7	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow$ $\uparrow$ $\uparrow$	$\square$	$1s^2 2s^2 2p^3$
Ne	10	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$ $\uparrow\downarrow$ $\uparrow\downarrow$	$\square$	$1s^2 2s^2 2p^6$
Na	11	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$ $\uparrow\downarrow$ $\uparrow\downarrow$	$\uparrow$	$1s^2 2s^2 2p^6 3s^1$

