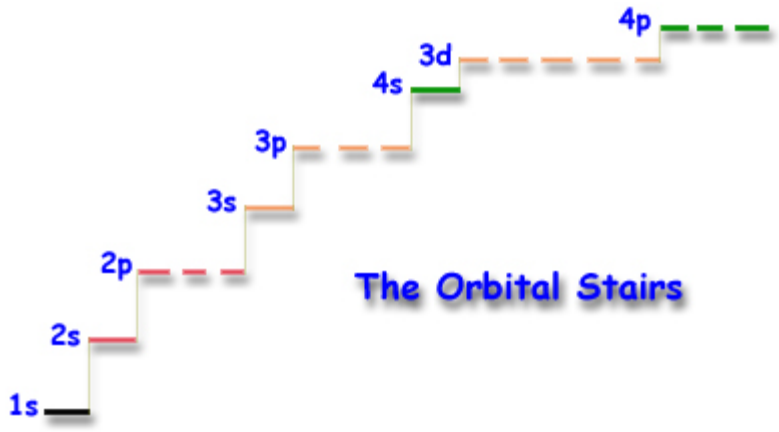
2.6 Various Ways to Show How the Electrons in an Atom are Arranged



Rules Governing Electron Configurations:

1. Orbitals fill in order of increasing energy – from lowest to highest

2. Each orbital can hold a maximum of 2 electrons.

3. When there is a set of orbitals of equal energy, electrons occupy each single first – then they pair up.

Electron Configurations Worksheet.

Gp		#e	1s	2s	2p	3s	3p	Electronic Configuration	Noble Gas	Valence	Lewis Dot
1A	H	1									H
8A	He	2									He
1A	Li	3									Li
2A	Be	4									Be
3A	B	5									B
4A	C	6									C
5A	N	7									N
6A	O	8									O
7A	F	9									F
8A	Ne	10									Ne
1A	Na	11									Na
2A	Mg	12									Mg
3A	Al	13									Al
4A	Si	14									Si
5A	P	15									P
6A	S	16									S
7A	Cl	17									Cl
8A	Ar	18									Ar