Announcements - Lecture VI- Thursday, Sep 20th **Lonely Clickers** No Name! 803BE05B 8209901B 827AB54D 8894FFE3

Announcements – Lecture VI– Thursday, Sep 20th	
First LAB Sat Sept 22 ND , 1-4 pm ISB 155/160	
a) Purchase Safety Glasses	
B) Print Lab pdf version (contains the Data 5	heet)
c) Read Lab Policy	
d) Read Sab Safety	
e) Theck out sample pre-lab quiz	
e) Theck out sample pre-lab ouiz questions on class web site.	

4.4 How Do We Balance Chemical Equations? Example 4

When the following chemical equation is balanced, the coefficient in front of the oxygen is:

$$C_2H_4(g) + \frac{3}{2}O_2(g) = \frac{2}{2}CO_2(g) + \frac{1}{2}H_2O(g)$$



a) 1

d) 4 e) 5

c) 3

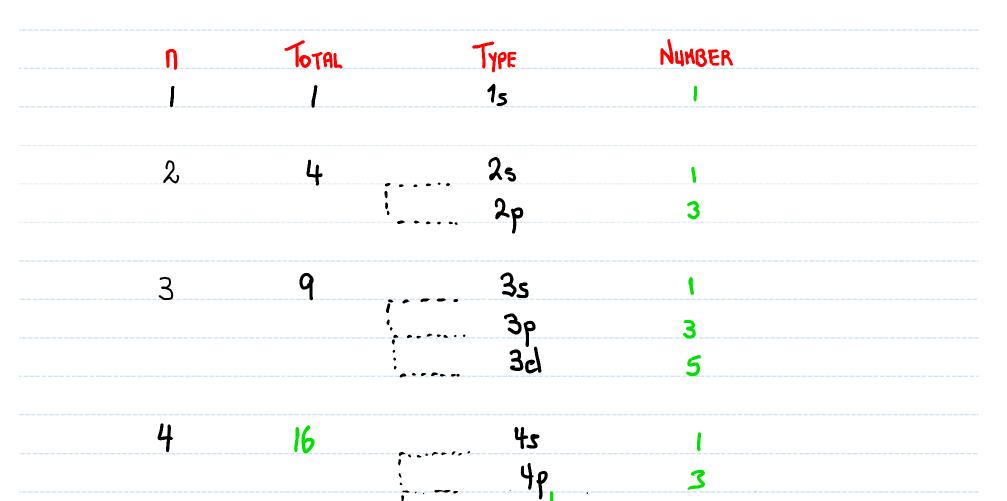
C 2 2 2 2 C 1 2 2 2
H 4 4 4 4 4 H Z 2 4 4
O 2 2 2 6 O 3 5 6 6

A Orbital Shapes

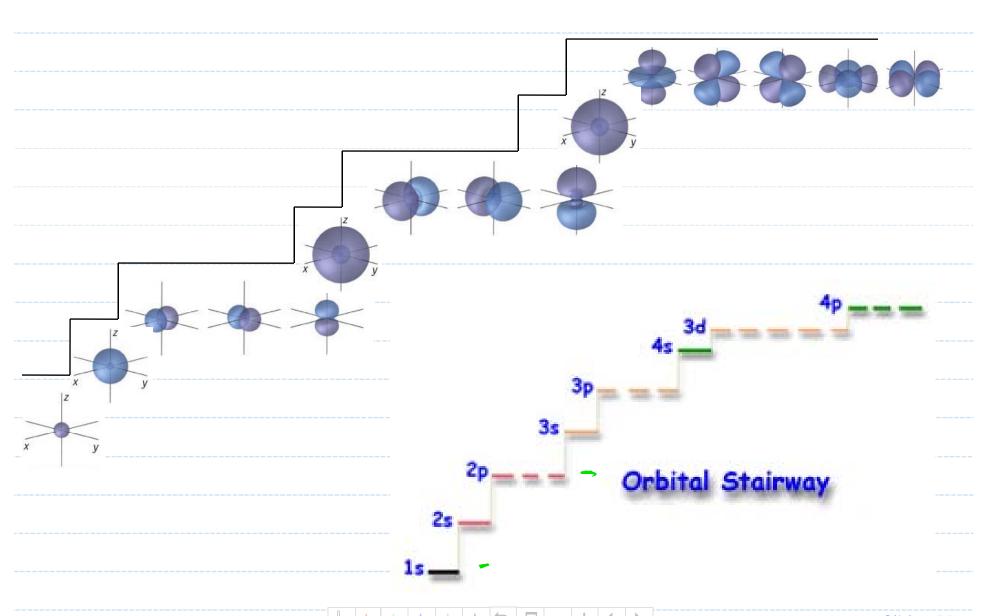
n	Orbitals		#	Label
1	1	Sphere	1	1s
25	4	Sphere (Parger)	1	25
		'Egg times"	3	2р

A Orbital Shapes

n	Orbitals		#	Label
		Sphere	1	3s
3	9	'Egg tinens'	3	Зр
		4 leaf cloven	5	3el



A Orbital Stairway



Electron Configurations Worksheet.

			OF	RBITI	al Box						
Gp		#e	1s	2s	2р	3s	3р	Electronic Configuration	Noble Gas	Valence	Lewis Dot
1A	Н	1	1					1s ^l			Н
8 <i>A</i>	He	₂ ①	1					152		lo .	He
						9—9	· ·	3		i i	ï
1 <i>A</i>	Li	3	71	1.		Ш		15,25			Li
2A	Be	4	14	<u>tt</u>				15252			Be
3 <i>A</i>	В	5	11	14	?			1525291			В
4 <i>A</i>	С	₆ @	<u>N</u>	11	1 1 3			15 25 202			С
5 <i>A</i>	Ν	7	11	13	111			1528528P3			N
6A	0	8	[]	11	111			152252894			0
7A	F	9	1 1	11 11	7141			15285295			F
8.4	Ne	10	11	14	11117	1		152322PE			Ne

Electron Configurations Worksheet.

Gp		#e	1s	2s	2p	3s	3р	Electronic Configuration	Noble Gas	Valence	Lewis Dot
1A	Na	11	11	11	tttt	1		15-25-206 351	100 100 100 100 100		Na
2A	Мд	12	14	14	1111	11		15252 2p6552			Мд
3 <i>A</i>	Al	13				U		152252063523p1			Al
4 <i>A</i>	Si	14				11	Tt	152522p63523p2			Si
5 <i>A</i>	P	15				11	111	152252p62523p3			P
6A	5	16				11	tur r	1522512p63523p4			5
7A	CI	17				14	1141	1522522p63523p5			CI
8.4	Ar	18				11	11414	152252963523P6			Ar

2.6		How Are the Electrons in an Atom Arranged?											
	1.	Pauli	Maxinum of 2 electrons per cellital										
	2.	Hand	Orbitals on the same level are filled singly first, then they are paired up										