Announcements - Lecture VII - Tuesday, Sep 27th

Exam I – Thursday, October 6th – In Class
 Second Lab – Saturday, October 1st ... 1-4pm ... ISB 155/60 (A-E)

 a) Print lab prior to coming to lab -- use the 'Print Friendly Version' located on the top left hand side of the page – this is the version that contains the 'Data Sheet' that you will hand in upon completing the lab. b) First set of Lab Owls will appear in Owl after this lab. There are a total of 4 sets of Lab Owls and they are worth 25% of the Lab <u>Grade.</u>



iClicker:

Choose any letter: A-E



4.4 How Do We Balance Chemical Equations? Example 4

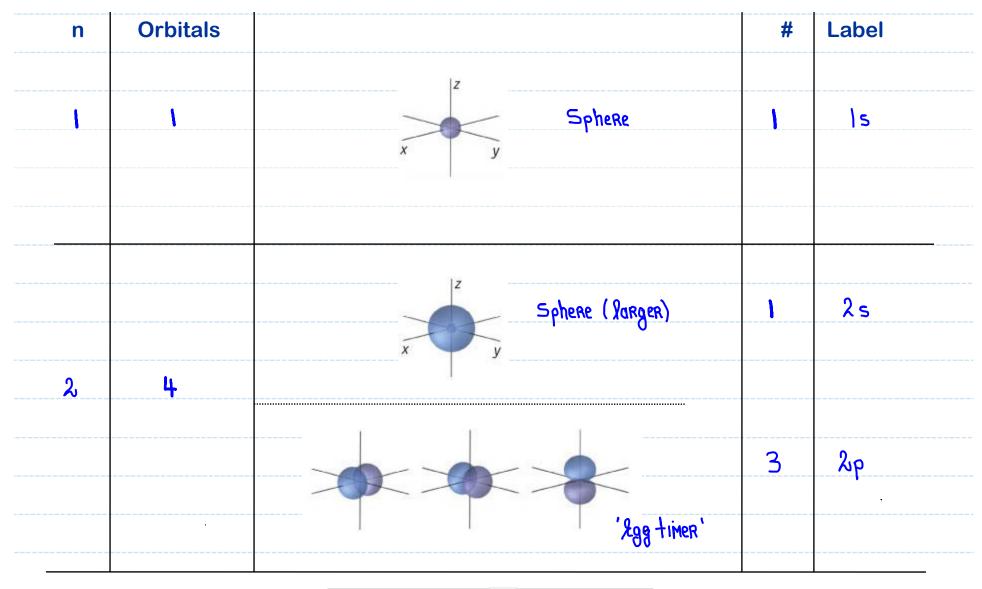
When the following chemical equation is balanced, the coefficient in front of the oxygen is:

$$C_{2}H_{4}(g) + 3 O_{2}(g) = 2 CO_{2}(g) + 2 H_{2}O(g)$$

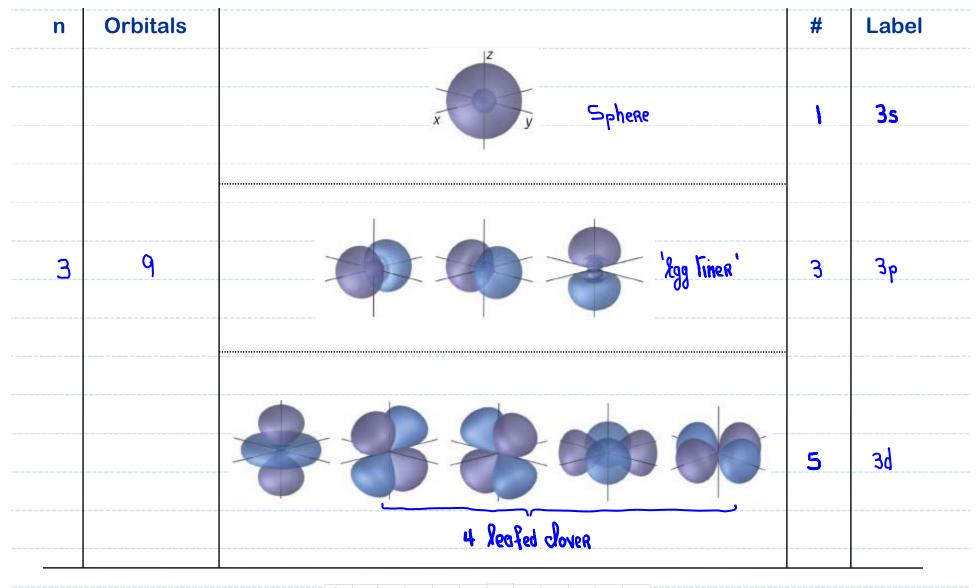
$$(a) 1 (b) 4 (b) 2 (c) 5 (c) 3 (c) 3 (c) 5 (c) 3 (c) 5 (c) 3 (c) 5 (c) 3 (c) 5 ($$



2.6 How Are the Electrons in an Atom Arranged?A Orbital Shapes

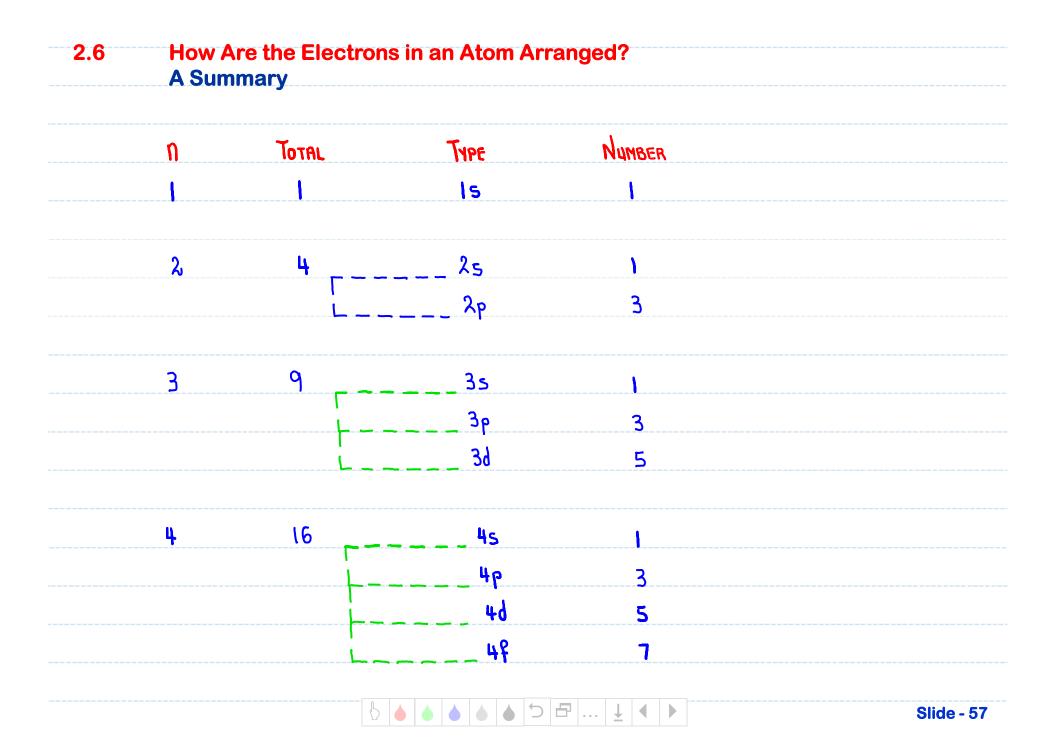


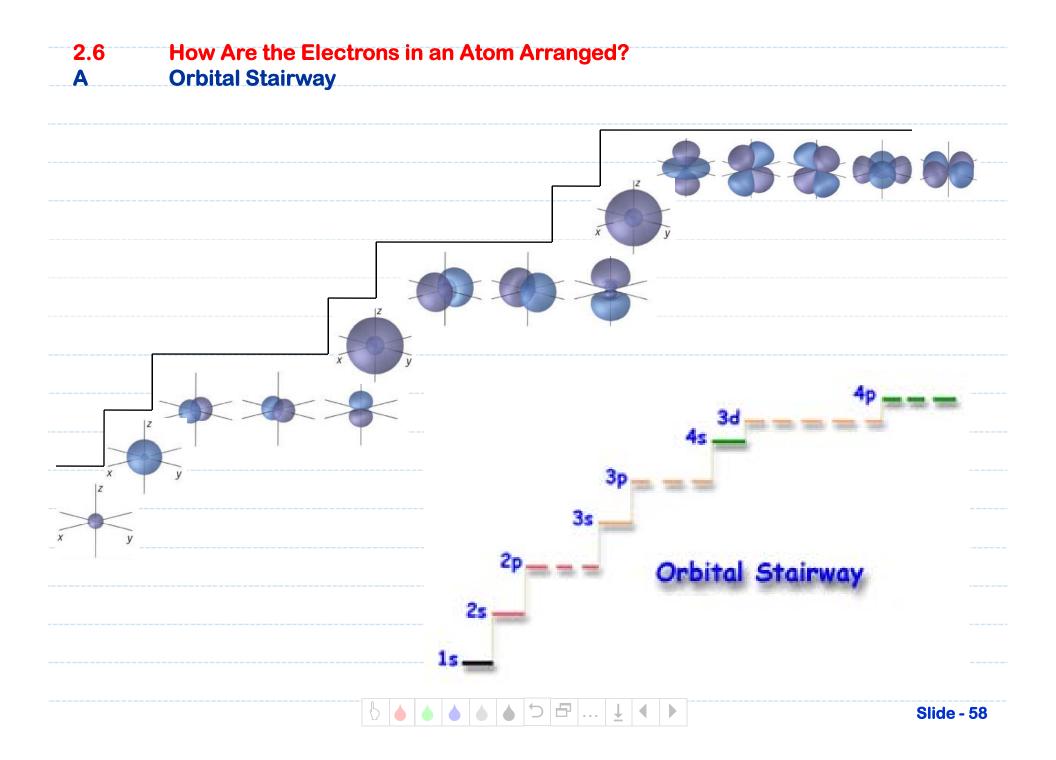
2.6 How Are the Electrons in an Atom Arranged?A Orbital Shapes



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2.6		Hov	Are the	Elec	tro	ns in a	an Atom Arranged?			
			Dal	ihl Bo	c Ele	ectron	Configurations Workshe	et.		
Gp		#e	1s 2s	2p	3s	Зр	Electronic Configuration	Noble Gas	Valence	Lewis Dot
1 <i>A</i>	н	1					ls'			н
8A	He	2 (1					ls²			He
1A	Li	3				\square				Li
2A	Be	4			H		<u> 5² 25'</u>)5 ² 25 ²			Be
3A	в	5					IS ² 25 ² 29 ¹			В
4A	С	62					15 ² 25 ² 2p2			С
5A	Ν	7		$\uparrow \uparrow \uparrow$			15² 25² 2p ³			N
6A	0	8					1522522p4			0
7A	F	9					15°25°295			F
8A	Ne	10					1522522p6	•		Ne

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Electron Configurations Worksheet.											
Gp		#e	1s	2s	2p	3s	3р	Electronic Configuration	Noble Gas	Valence	Lewis Dot
1A	Na	11				\uparrow		152252p6 351			Na
2A	Mg	12						1522522p6 352			Mg
3A	AI	13						1522522p6 352 3p1			AI
4A	Si	14		0.00			$\uparrow \uparrow$	IS 25 2p6 352 3p2			Si
5A	Ρ	15					$\uparrow \uparrow \uparrow$	152252p63523p3			Р
6A	s	16		$(\lambda - \lambda) = 0$	NNN			15252p63523p4			S
7A	CI	17						152252263523p5			CI
8A	Ar	18						1522522p63523p6			Ar

How Are the Electrons in an Atom Arranged?

2.6

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