## <u> Announcements – Lecture IX – Thursday, Oct 2<sup>nd</sup></u>



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.

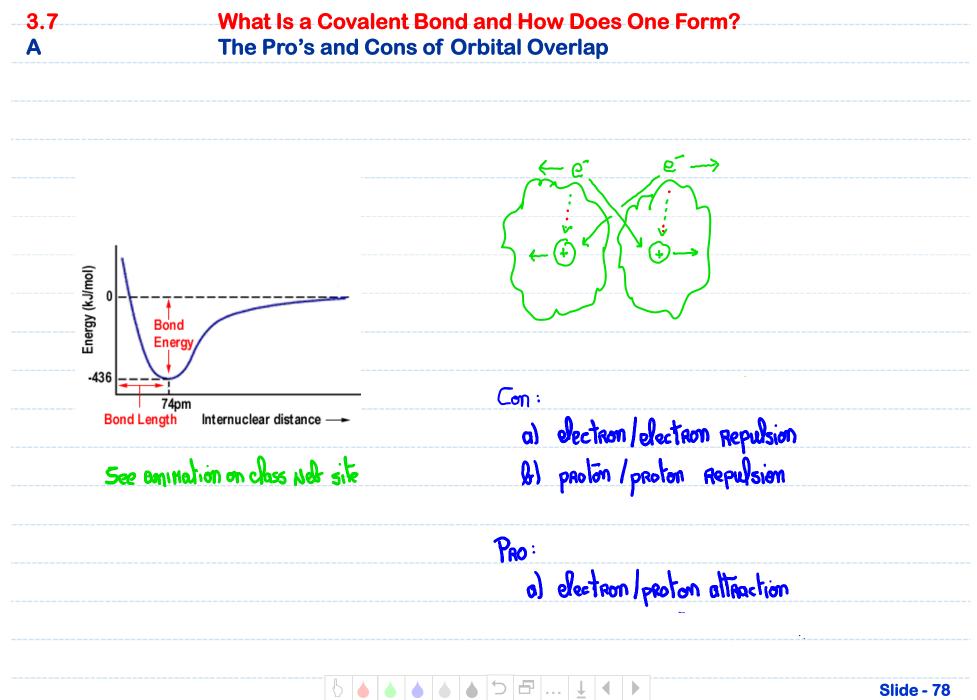
*b)* First set of Lab Owls will appear in Owl after this lab. There are a total of 4 sets of Lab Owls and they are worth <u>25% of the Lab</u> <u>Grade.</u>



2.

iClicker: *Choose any letter: A-E* 





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3.7 C	What Is a Covalent Bond Drawing Lewis Structure		
Group I:	Bond Pair and Lone Pair		
CH <sub>4</sub>		NH <sub>3</sub>	
C: 4	H Bond Pair	N: 5	LONE Pair
H: 4()	(2 electrons)	H: 3(1)	H - N-H (2 electrons)
8	H - C - H	8	l H
4×BP -8	1	3×8° -6	
0	Н	2 1x19 - 2	
	BP = Bond Pair	0	LP= LONE PRI
H <sub>2</sub> O		SiF4	·····
D: 6		Si: 4	;F - SI -F:
H: 2(1)	H - O - H	F : <u>4(1)</u>	··· / ·· :F:
8	••	32	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2×BP -4		4 x BP <u>-8</u> 24	·· = - جم اتجا
4 2xlp <u>-4</u>		12×19 -24	IF - SI-FI
0		0	IFI

NCI <sub>3</sub> N: 5	เอ๋เ	
0: <u>3(7)</u> 26	100 - N - CI	# Lone pairs on Cl? a) 1
31BP -6		b) 9
91LP - 18		(c) 3
1 1 1 1 1 1 1 1 1 1 1 1 1 0		
	st placter wantuis atom in the con	ntee Why? unloce attractice indicated
1) The lea	v	mter Why? unless otherwise indicated.
1) Jhe lea 11) Hydrog	on 2 [He] all other atom	ms 8 ([Ne] → [Rn]
11) Hydrog 111) Alloca	on 2 [He] of other atom to electrons to the outer atoms	



NH <sub>4</sub> +	r 7+	
N: 5	н - N-н	0: 7 0: 3(6)
H : 4(I)	Ч	$-\frac{1}{26}$ $10 - 0 - 01$
+ : -1	OR	3xbp -G
8	н ]+	20 9xlp -18
4× BP -8	H - N-H	2
σ	l H	$1 \times L^{p} - 2$
CIO4- Class	HONENORK EXERCISE	Notes
0: 7 0: 4(6)		a) Negative charges increase the valence electron total
<u>-:</u>	101	B) Passitive changes decrease the valence electron total
32	10-0-01	c) Use parenthesis [] or 7.
4xbp <u>- 8</u> 24	- 1	,
12×LP - 24		



3.7 C Group III:	Drawing Lewis Structures of Covalent Compounds	
H <sub>2</sub> CO H: 1(i) C: 4 O: <u>6</u>	H ? H ? One lone pair on it ? H-C-OI	
12 3x BP <u>-6</u> 6 3x LP <u>-6</u>	? are both atoms that are about to form a Multiple bond Hombers of ENOPS?	
3x LP <u>-6</u> 0	H - c = U U U U U U U U U U U U U U U U U U	
HCN H: 1 C: 4 N: 5	, <sup>?</sup>	
10 1×BP <u>- 4</u> 6	$H - C - \overline{N}  $	
3xlp <u>-6</u> 0	H-CENI	
	\[ \begin{aligned} & \begin{aligned}	