#### Stuff | Should Know (Page 2)

Complex Ions & Common Ligands

Ligands	polar molecules & amons	NH, HO, OH, CN, CI	Odd example:
Central Ions	transition metals and Al'	Ag Cu Ni Zn etc & Al	Fe'" + SCN == FeSCN"
Examples	urually twice the number of ligands as the charge on the central ion. Key Words: "excess, concentrated."	Ag(CN) <sub>2</sub> ", Cu(NH <sub>1</sub> ) <sub>2</sub> ", N <sub>1</sub> (OH) <sub>2</sub> ", Z <sub>B</sub> (NH <sub>1</sub> ) <sub>2</sub> ", Al(OH) <sub>2</sub> "	Reaction with Acid: Cu(NH <sub>3</sub> ) <sub>2</sub> <sup>2+</sup> +H <sup>+</sup> → Cu <sup>2+</sup> +NH <sub>4</sub> *

alkanes C <sub>u</sub> H <sub>2m2</sub>	alkenes C <sub>s</sub> H <sub>2s</sub>	alkynes C <sub>a</sub> H <sub>2m-2</sub>	aromatics (benzene)
alcohol R — OH	aldehyde O    R— C — H	hetene O    R—C—R	ether R — o — R
carboxylic acid O    R—C—OH	ester 0 	rmine	R—C—NH2
Substituted bearens:	ortho = 1.2	meta = 1.3	para = 1.4

-	oclear chem
	adjoba
	. He
Ь	etalelectron
	_1°e
	meutron
	on
	positron oc
	20000

AH AS Spent?
- + at all temps
high temps
low temps
- no temps
Note: AS in J
∆G & ∆H in kJ
K.p & Solubility, s
1:1 K <sub>ap</sub> = x <sup>2</sup>
1:2 Kap = 44 '
1.3 K., - 274"
2.3 K <sub>sp</sub> = 108s <sup>3</sup>

#### Lewis Acids & Bases

BF. + NH. - BF.NH.

acid anhydrides (oxides of nonmetals, CO<sub>1</sub>)

basic anhydrides (oxides of metals, MgO)

MgO + CO2 → MgCO3

decomposition reactions: MgCO<sub>1</sub> → MgO + CO<sub>2</sub> Strange Examples:  $P_1O_{10} + H_2O \rightarrow H_3PO_4$ 

Strange Ions: (nitride, Ni-) (hydride, H')

 $L_1 + M_2 \longrightarrow L_2 M$ LiH+H-O -+ H-+LI +OH

#### Flame Test Colors

Barium – green
Sodium - yellow
Copper - blue (w/green)
Potessium – lavender
Strontium - sed
Lithium - red
Calcium - orange

#### Quantum Numbers

m	1, 2, 3,
1	0 (m-1)
m	4 4
ETA.	49090

$0 - \epsilon$	1 - p.
2 - d	3 - f

#### Writing Lewis Structures

hint: use one valence election to connect F's or Cl's then determine lone paint (Ex: XeF.)

#### Product-Favored (Spontaneous) Reactions

 $E^* > 0$  $\mathbb{R}_{m_0} > 1$  $\Delta G < 0$ 

Properties Indicate Strength of Intermolecular Forces (IMEN)

IMF	BP	FP	$H_{\rm vap}$	$H_{fus}$	VP
IMP	89	FP	H <sub>rap</sub>	24 sun	$\mathbf{VP}$

#### Orders of Reactions & Graphs That Give Straight Lines

0 Order	1 deder	2nd Order
[R] vs. Time	In[R] vs. Time	L/[K] vs. Time
slope = -k	slope = -k	slope - k

Electrochemical Cells		
amo de	cathode	
opedation.	peduction.	
-side	+ side	
lower E*	higher E	
e leave	e enter	

#### Bond Orders

bond	8.0.	
rangle	1	er er
dorable	72	an+us
traple	3	contractor:

#### SN & hybridization & shape

Steric Number	hybridization	basic shape
1		
2	s p	limear
	8 p	△ planar
4	2.30	tetrahedrali
5	sp'd	△ bipyramidal
6	sp'd'	octahedral.

#### INDIF''s

London	nonpolar molecules, ex: CH <sub>4</sub> , He
dipole -dipole	polar molecules, ex: H <sub>2</sub> S, SO <sub>2</sub>
hydrogen bonding	H-P, H-O-, H-N-, NH <sub>3</sub> , H <sub>2</sub> O amines and alcohols
martallic	metals, Ag. Pb
Sorac	salts, NeCl, CeCO; (Note: "ates" contain covalent bonds)
covalent network	C(graphite), C(diamond), SiO <sub>2</sub> , WC, Si, SiC (Note: graphite = London, too)

#### Activity of Metals (Four Groups)

Metals	React with
Groups I & II	$H_2O = x Li + H_2O \rightarrow Li' + OH' + H_2$
all others	Non-exidizing Acid, ex: HCl Zn + 2HCl → H <sub>2</sub> + ZnCl <sub>2</sub>
Cu. Ag. Hg	Omduring Acad, HNO, or H <sub>2</sub> SO <sub>4</sub> (cone.) Cu + HNO <sub>1</sub> → NO <sub>2</sub> + H <sub>2</sub> O + Cu <sup>2+</sup>
Au, Pt. Ir	Aqua Regia (HNO; + HCI)

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**Sabine Zange** 

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web jul 31 2023 begin your letter by explicitly stating that you are requesting sick leave mention the specific dates you need to be absent from work provide a valid reason briefly explain the reason for your sick leave you don't need to go into great detail but mention the illness or health condition that necessitates your absence be honest and transparent

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web acknowledge and agree that any sick leave advanced to me is considered a debt and that beginning with the first pay period after the advancement is approved i am required to repay the city of bothell by applying my future sick leave accruals each pay period

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web aug 31 2023 leave request due to health conditions you may consider taking some time off work for personal reasons

including health problems here s an example leave request message that you can use for it subject leave request due to health condition dear mark i m writing to ask for five days off from 15 to 19 november 2021

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web jul 31 2023 whatever the case if you need extended time away from work you should submit a leave of absence request to your employer in this article we offer several tips to help you compose a professional leave of absence request that appropriately addresses you and your employer s needs

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web feb 3 2023 1 review your organization s leave policies before writing your leave application letter check your employee handbook or consult with human resources to determine what information they need to approve your request for example they may require fmla paperwork or a doctor s note for official medical leave