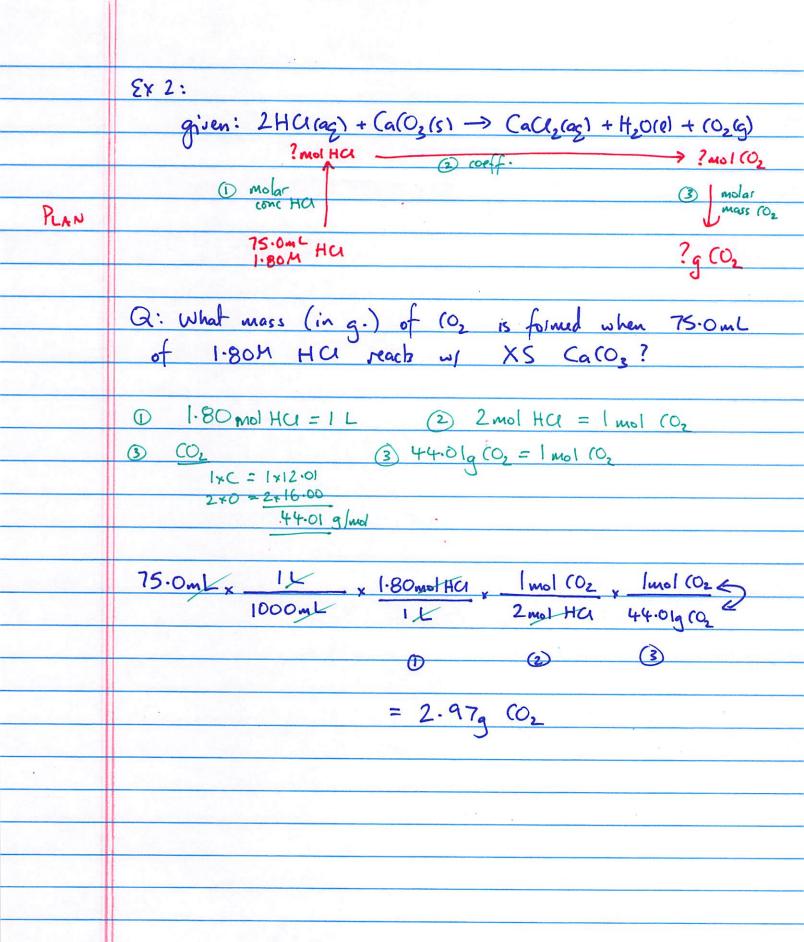
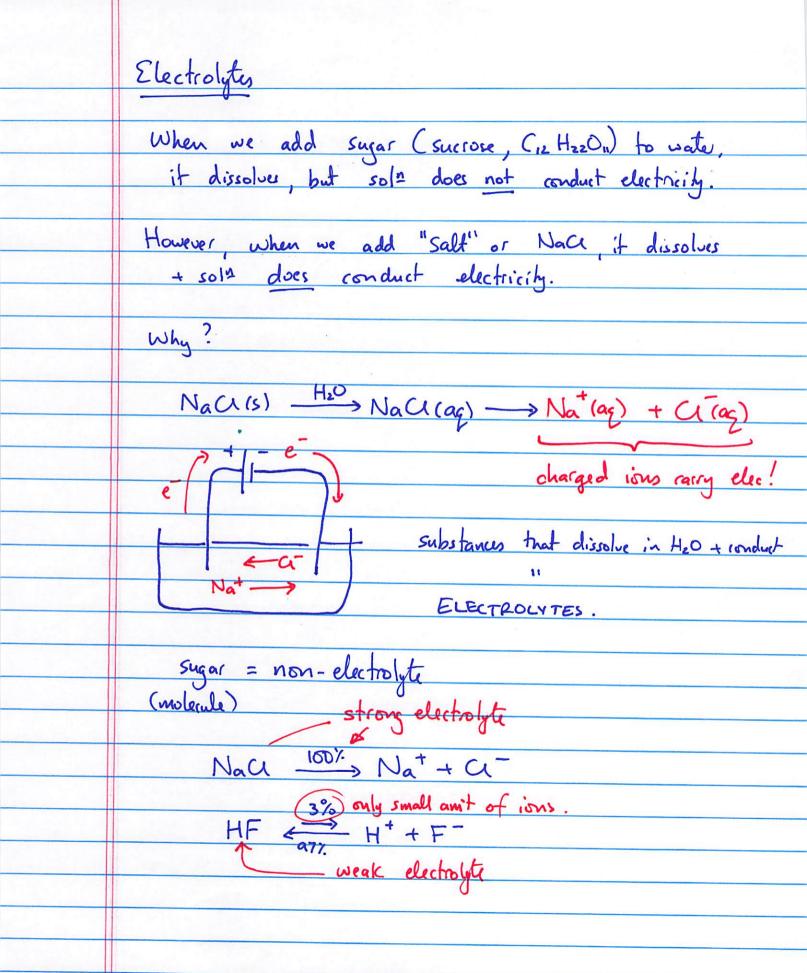
10/8/2018	Soly spoichiometry			
	$A \longrightarrow R$			
	A B mol A coeff. mol B			
	molar A molar B			
	vol A vol B			
	Ex: What vol (in L) of O.150M KCe(ag) will completely			
\ /	react w/ 0.150L of a 0.175M Pb(NOs), (as) sola			
M, V, M2 V2	12(1-5/2-1)			
	given: 2 Karagi + Pb(Noz), ragi -> Pbazis + 2KNozagi			
	?mol Kal (() () () () () () () () ()			
	(3) 0.150M/			
	0.17511			
	? L Ka 0.150L Ph(Ny),			
	0.10 M 0.175M			
	1) 0.175M Pb(NO3)2 (ag) means: 0.175mol Pb(NO3)2 = 1 L soly			
	(2) mol Pb(NO3), = 2 mol KCl			
	(3) 0.150M KC1(ag) means: 0.150mol KC1 = 1 L KC1 sol			
	0.1502 Ph(NO3), sol= x 0.175 mol Pb(NO3) 2 x 2 mol KC1 1 L KC1 sol=			
	1 L Pb(NO, 1, 50/2 mol Pb(NO,), 0.150 mol KG			
.15				
0.150 0	= 0.350 L KC1 50 12.			





Ions Are Generally SolubleExceptions Li^+ , Na^+ , K^+ , and NH_4^+ None NO_3^- and $C_2H_3O_2^-$ None Cl^- , Br^- , and l^- When these ions pair with Ag^+ , Hg_2^{2+} , or Pb^{2+} ,

the resulting compounds are insoluble.

resulting compound is slightly soluble.

the resulting compounds are soluble.

When these ions pair with Li⁺, Na⁺, K⁺, or NH₄⁺,

SO ₄ ²⁻	When SO_4^{2-} pairs with Sr^{2+} , Ba^{2+} , Pb^{2+} , Ag^+ , or Ca^{2+} , the resulting compound is insoluble.
Compounds Containing the Following lons Are Generally Insoluble	Exceptions

TABLE 4.1 Solubility Rules for Ionic Compounds in Water

Compounds Containing the Following lons Are Generally Insoluble	Exceptions
$\mathrm{OH^-}$ and $\mathrm{S^{2-}}$	When these ions pair with ${\rm Li}^+, {\rm Na}^+, {\rm K}^+, {\rm or} {\rm NH_4}^+,$ the resulting compounds are soluble.
	When S^{2-} pairs with Ca^{2+} , Sr^{2+} , or Ba^{2+} , the resulting compound is soluble.
	When OH ⁻ pairs with Ca ²⁺ , Sr ²⁺ , or Ba ²⁺ , the

 CO_3^{2-} and PO_4^{3-}

Compounds Containing the Following

	Solubility of ionic cpds	
	- State Characteristics	
	-not all ionic codes dissolve in H20!	
	- can use an empirical set of sol.	shipp rules
	table 4-1	
	Liz Pour AgBr Caroz	Na, Soy
	Liz Pour AgBr Caroz soluble insol. insol.	
	Precipi bation runs	
	precipitate = solid	
	(ppt)	ppt
	er: 2KI(ag) + Pb(NO3)2(ag) -> (PbI	2(5) + 2KNO3(ag)
	not all rens form pph:	
	ex: KI(ag) + NaCl (ag) -> no	txv.
	KEY: Only insoluble codo for	Sim pph:
1		