

Quiz 15 Class	#:	Last Name:
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Write the net ionic equation for the reaction that takes place when aqueous solutions of calcium chloride and ammonium carbonate are combined?

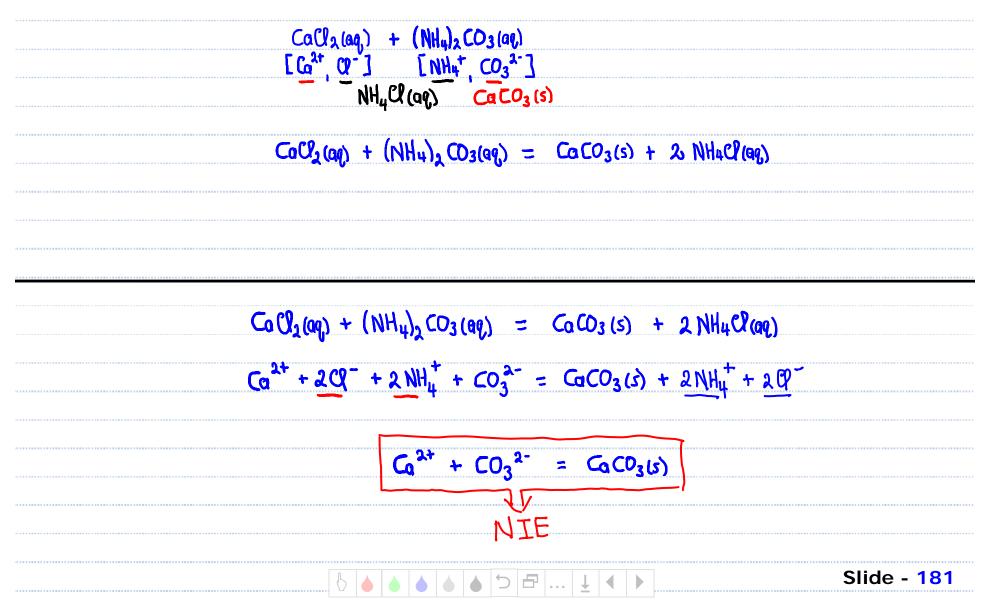
Soluble Ionic Compounds	Exceptions	
Sodium (Na+), potassium (K+), and ammonium (NH4+) salts		
Nitrate (NO ₃ ⁻), acetate (CH ₃ CO ₂ ⁻), chlorate (ClO ₃ ⁻), and perchlorate (ClO ₄ ⁻) salts		
Chloride (Cl ⁻), bromide (Br ⁻), and iodide (l ⁻) salts	Pb ²⁺ , Ag ⁺ , Hg ₂ ²⁺	
Fluoride (F ⁻) salts	Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Pb ²⁺	
Sulfate (SO ₄ ²⁻) salts	Ca ²⁺ , Hg ₂ ²⁺ , Sr ²⁺ , Ba ²⁺ , Pb ²⁺	

Insoluble Ionic Compounds	Exceptions	
Hydroxide (OH ⁻) and oxide (O ²⁻) compounds	Na+, K+, Ba ²⁺	
Sulfide (S ²⁻) salts	Na+, K+, NH ₄ +, Ba ²⁺	
Carbonate (CO32-) and phosphate (PO43-) salts	Na+, K+, NH4+	

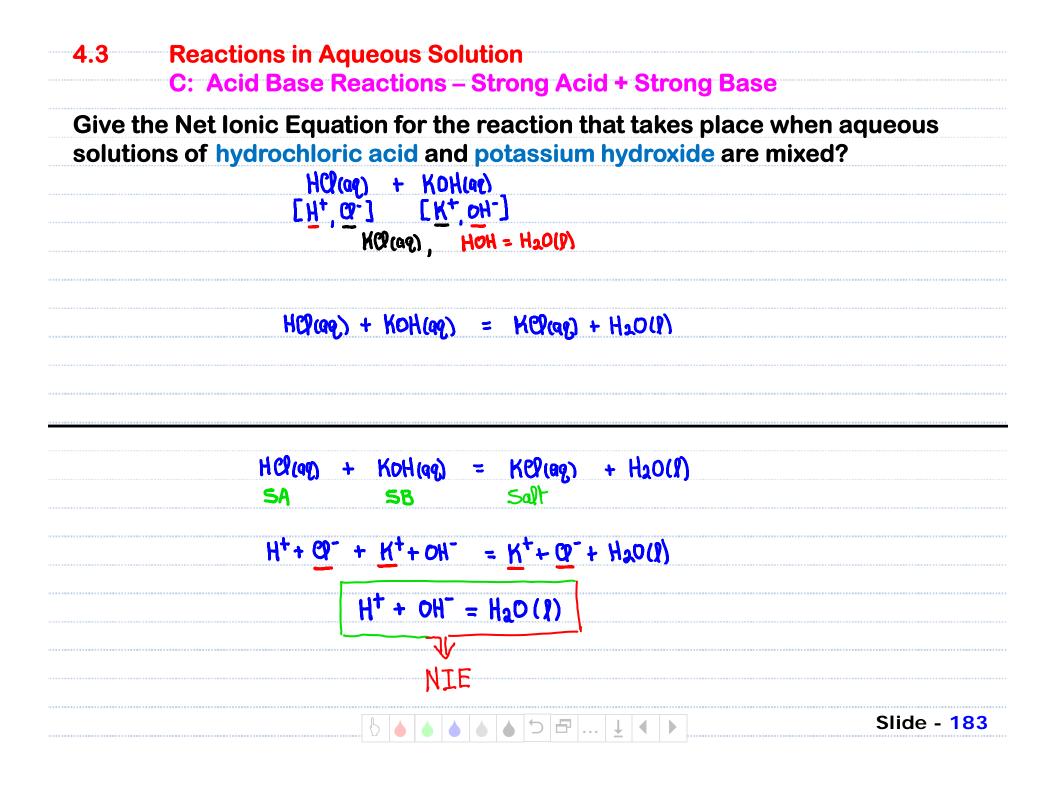


Quiz 15 -- Solution:

Write the net ionic equation for the reaction that takes placed when aqueous solutions of calcium chloride and ammonium carbonate are combined?

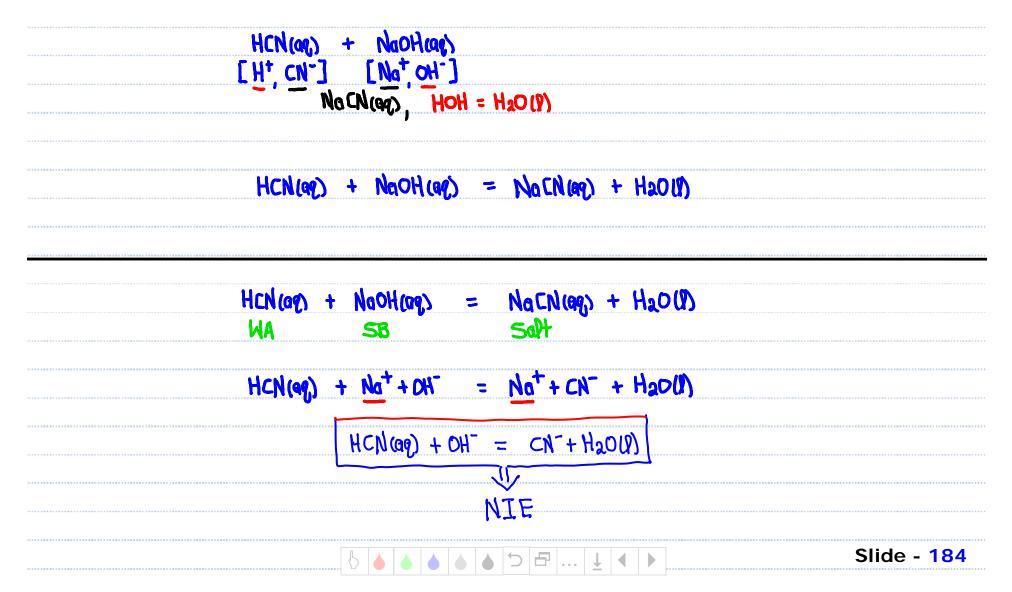


Dee class helfs	te to interact with Itic	s simuzation			٦
Acid: ○ H ₃ PO ₄ ○ CH ₃ CO ₂ H ○ H ₂ CO ₃ ○ HCI ○ HNO ₃				• •	Nhile all acids are designated as (ap) only 6 vinize 100% in Nater.
● HClO₄		lonized acid is red in the abov		-	Af eun a cid is Not one of the 6 strm acids then you may infer that it is Neak.
S Strong Acips			4 Solubl	e Strc	kong Bases
HCP	Hydrochloric acid			Цон	
HBr	Hydrobromic acid			Naot	OH Sodijin hydroxide
HI	Hydroiodic acid			KOH	H Potossiun hydroxide
HNO3	Nitric acid			Bg(o	
НСР04 Н ₂ 504	Perchloric acid Sulfuric acid				-



4.3 Reactions in Aqueous Solution C: Acid Base Reactions – Weak Acid + Strong Base

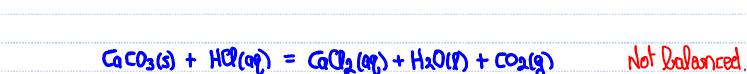
Give the Net Ionic Equation for the reaction that takes place when aqueous solutions of hydrocyanic acid (HCN) and sodium hydroxide are mixed?



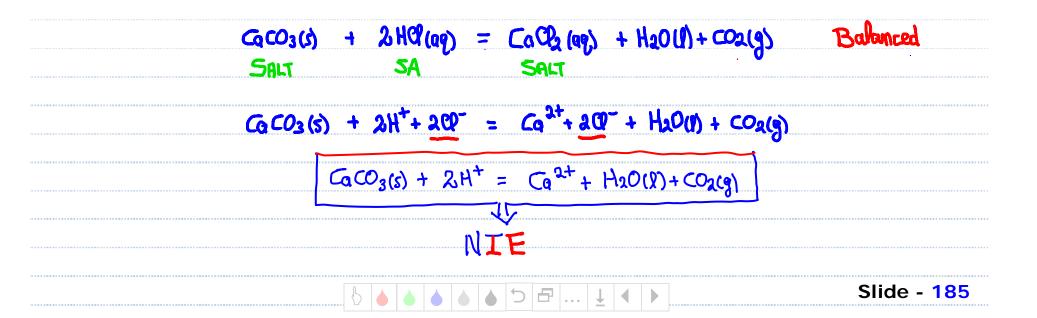
4.3 Reactions in Aqueous Solution D: Gas-Forming Reactions -- Metal Carbonate + Strong Acid

> $C_0 C_{0_3(s)} + HC_{100}$ $[C_0^{2+} C_0^{2-}] [H^+ C_{0-}]$

Give the Net Ionic Equation for the reaction that takes place when calcium carbonate is place in an aqueous solution of hydrochloric acid.

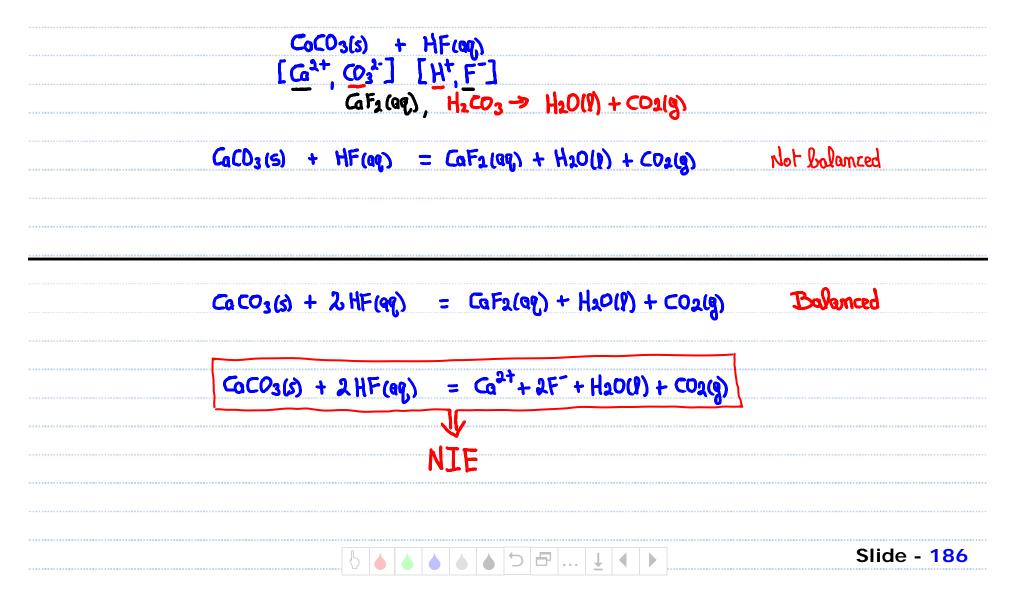


GCP2(09) H2CO3 -> H2O(P) + CO2(g)



4.3 Reactions in Aqueous Solution D: Gas-Forming Reactions -- Metal Carbonate + Weak Acid

Give the Net Ionic Equation for the reaction that takes place when calcium carbonate is place in an aqueous solution of hydrofluoric acid (HF).



4.3	Rea	ctions in Aqueous Solutio	n			
	D: Gas-Forming Reactions Other Types					
	ટ ા.	$NaHCO_3(QQ) + HCP(QQ) = NaHCO_3(QQ)$	lack(ag) + H2O($(1) + CO_2(g)$		
	3.	Nazscael + 2HCPcael =	2 Na CP (aq) +	H25(g)		
	4. $Na_2 = 5O_3 (aq) + 2 HCP(aq) = 2 NaCP(aq) + H_2O(P) + SO_2(q)$					
		Metal carbonate)	•••• +	<u>CÔ2(8)</u>	
		Metal hydrogencarbonate	+ acig	+	ငပ်ဥ(၅) ငဝဥ(၅)	
		Metal hydrogencarbonate Metal sulfide	+ <i>dcig</i>	···· +	CO2(9) Has(9)	
		Metal hydrogencarbonate	+ acig	···· +	CD2(g)	
		Metal hydrogencarbonate Metal sulfide	+ acig	···· +	CO2(9) Has(9)	
		Metal hydrogencarbonate Metal sulfide	+ acig	···· +	CO2(9) Has(9)	
		Metal hydrogencarbonate Metal sulfide	} + acig {	···· +	CO2(9) Has(9)	
		Metal hydrogencarbonate Metal sulfide		*	CO2(9) HaS(9) SO2(9)	