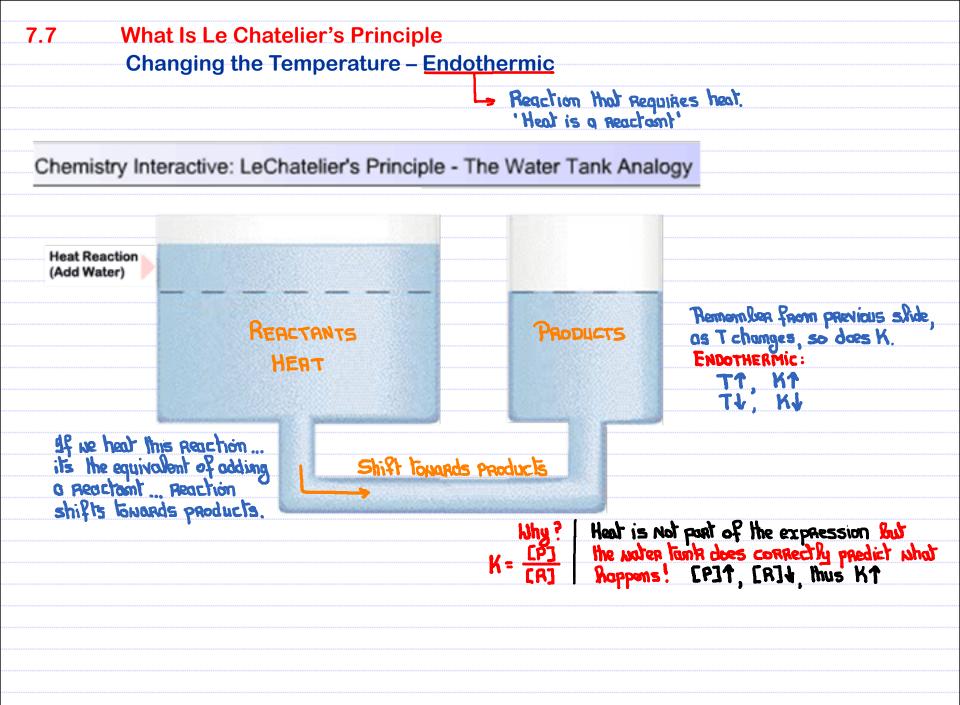
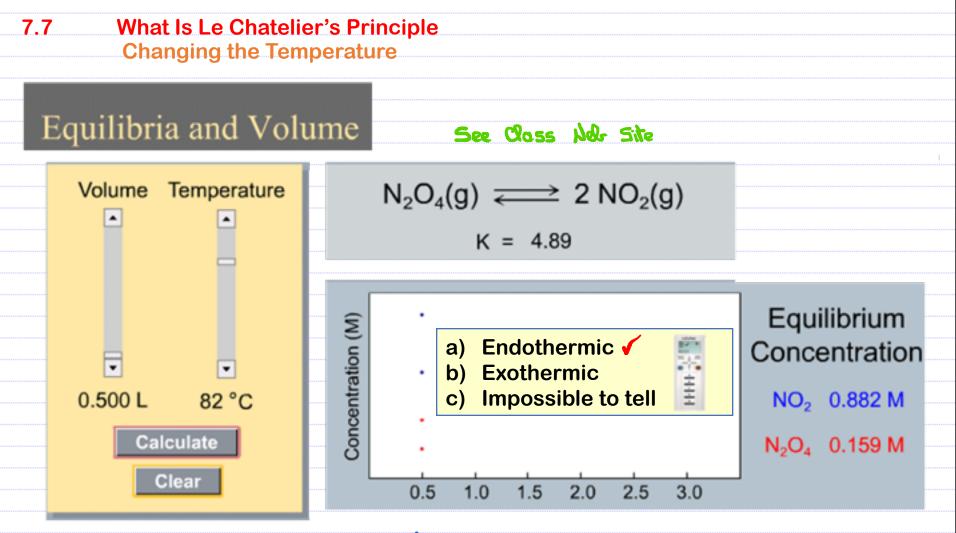


EXOTHERMIC RXN: TT, KJ meaning less products. TJ, KT meaning none products.

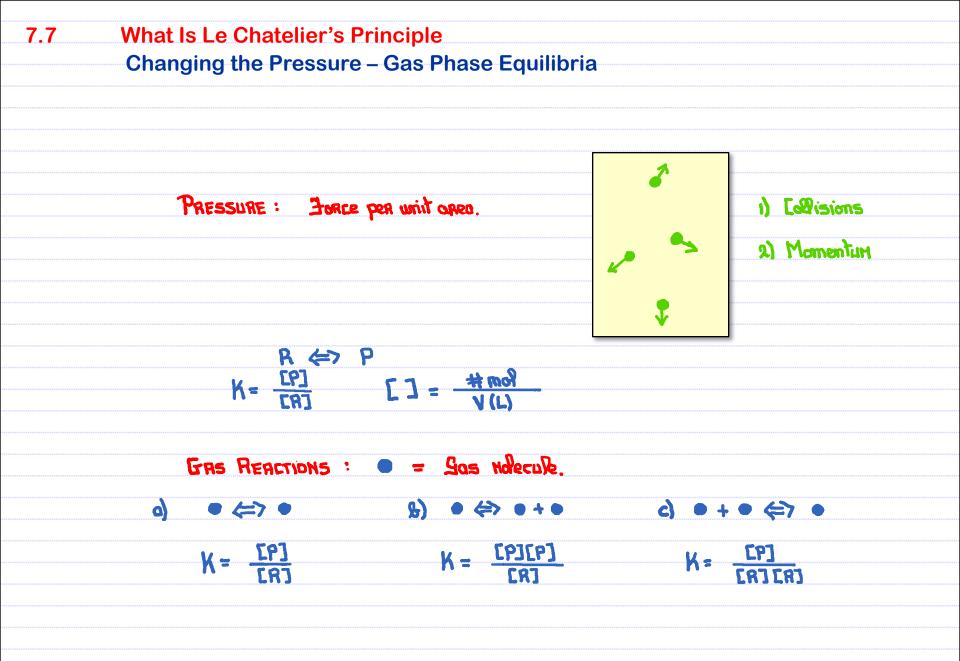


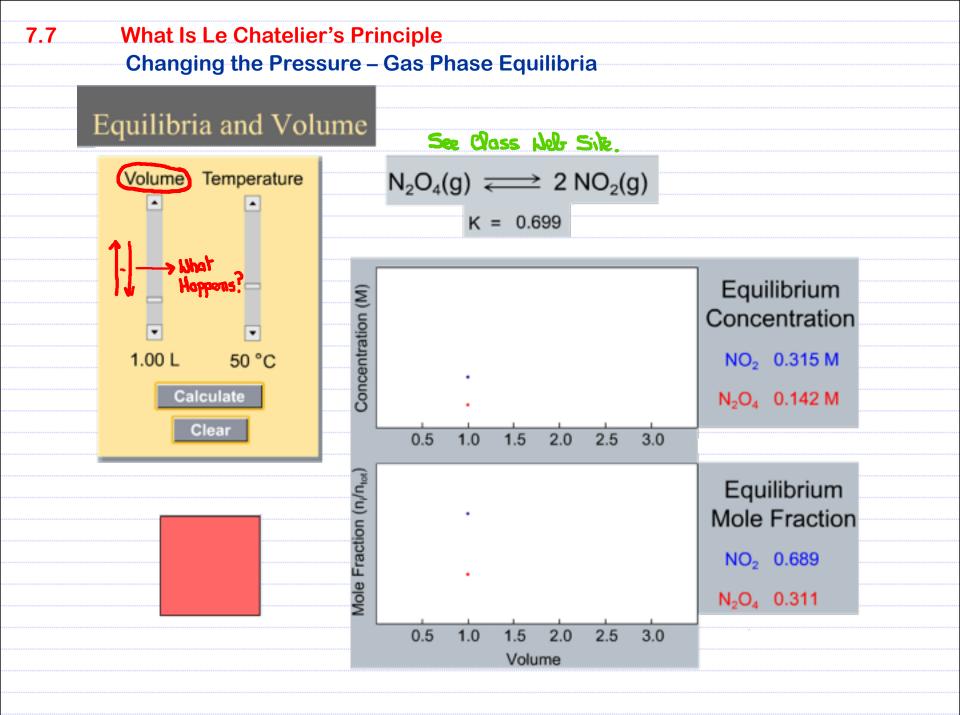
	Action		Equilibrium Shift	MHY
	Odd heat (heat H Remove heat (cool H		Shift lowards Reactants Shift lowards products	KJ KT
2)	Odd heat (heat H Remove heat (cool)	ne Rxn.) the Rxn.)	Shift lowards products Shift lowards reactants	kî Kî

·	oroduction of ammonia is an exothermic process – N₂ (g) + 3 H₂(g) ⇔ 2 NH₃ (g) aximize the [NH₃] at equilibrium it is best to	
a) b) c)	Heat the reaction Cool the reaction Leave it as is!	
	Nag) + 3 Hag) <=> & <u>NHag</u>) + heat.	
	Namt to maximize this	}
		<u></u>



What is happening to K as you increase T? K1, thus it must be Endothernic.





7.7	What Is Le Chatelier's Prin	iciple			
	Changing the Pressure – C	Gas Phase Equilibria			
	Reactants	(g) < Products (g)			
	Αςτίοη	Equilibrium Shift			
	Nolume 7, ie PJ	Jouards the side with the greater mumber of gas molecules in on effort to restore the pressure _ 19 it can ?			
		gas movecuses in an export to restore the			
		PRESSURE _ 21 IT COM !			
	Volume J, ie PT	Journads the side with the Pewest mumber of			
		Jowards the side with the fewest mumber of gas molecules in an effort to reduce the pressure _ 47 it can?			
		PRESSURE _ 47 it can?			

	What Is Le Chatelier's Principle Changing the Pressure – Summary					
	Action	Equilibrium Shift	Wm ?			
)	03(g) + ND	(g) ⇐ァ O2(g) + ND2(g)	● + ● <=> ● + ●			
		NL·Db	[OA][NOA]			
	Vt, PL VL, Pt	No shift No shift	[02][NO] This Ratio is unaffected by either action, system remains at equilibrium.			
2)	2 NOCI (g)	\Leftrightarrow 2 NO(g) + Ω_{λ} (g)	• + • <=> • + • + ● [NO] ² [CP ₂]			
	Nt. PJ	Jouards products				
	VV, PT	Jougrds reactants	This ratio is changed by either oction, shifts to restore ratio back to K.			
3)	N2(g) + 3H2	2(g) <=> 2 NH3(g)				
	NT.PL	Jouards reactants	<u>[NH3]</u> [N2] [H2] ³			
	VI, PT	Jonards products	Jhis Ratio is changed by either action, shifts to restore Ratio back to K.			

7.7 Le Chatelier's and Hemoglobin

