Chemistry 12 Worksheet 2-2 LeChatelier's Principle

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	$\mathcal{D}(\cdot)$	BTAL	= • • urlb.
<u>e</u>	ं	_''	

	In order to decide what effect a change in total pressure will have on an equilibrium system
(·) ·	with gases, what is the first thing you should do when given the balanced equation?
. 1)	- Add up the moles of gas on each side of
	the equation
2.	Predict which way the following equilibrium systems will shift when the total pressure is
	increased.(NOTE: Some may have no shift)
(2)	a). Name + Olio = 2NOID Answer no shift
(ツ/	b). 2502(e) + 02(e) = 250 vol Answer right
\sim	c). 4NH3(g) +502(g) = 4NO(g) +6H2O(g) Answer 1eft
3.	Which way will the following equilibrium shift if the total pressure on the system is
20	9 moles gas 10 moles gas to counternot the decrease in pressure
	Answer right
4	Explain why a flask filled with $NO_{2(g)}$ and $N_2O_{4(g)}$ will get darker when heated. Use the equation: $N_2O_{4(g)} + heat \stackrel{\text{def}}{=} 2NO_{2(g)}$ Colombia Clark brown
	- heating will cause the equil = to shift right.
	This will produce more NOw which is dark brown Hence
$\overline{}$	
	the colour will get darker.
	State Le Chatelier's Principle.
(\cdot, \cdot)	When a stress is applied to a system at equilibrium, the equil's will shift (left or right) so as to counteract
$\left(\right) / \left(\right)$	the equilar will shift (left or mit) so on to counterport
	the imposed stress

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JL Elias

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Water-Insoluble Drug Formulation Ron Liu, 2018-03-12 Properties and Formulation From Theory to Real World Application Scientists have attributed more than 40 percent of the failures in new drug development to poor biopharmaceutical properties particularly water insolubility Issues surrounding water insolubility can postpone or completely derail important new drug development Even the much needed reformulation of currently marketed products can be significantly affected by these challenges More recently it was reported that the percentage increased to 90% for the candidates of new chemical entities in the discovery stage and 75% for compounds under development In the most comprehensive resource on the topic this third edition of Water Insoluble Drug Formulation brings together a distinguished team of experts to provide the scientific background and step by step guidance needed to deal with solubility issues in drug development Twenty three chapters systematically describe the detailed discussion on solubility theories solubility prediction models the aspects of preformulation biopharmaceutics pharmacokinetics regulatory and discovery support of water insoluble drugs to various techniques used in developing delivery systems for water insoluble drugs This book includes more

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