



# It's Le Chatelier's Principle



If a dynamic equilibrium is disturbed by changing the conditions, the position of equilibrium moves to counteract the change.



i will  
destroy your  
equilibrium

i will  
re-establish  
it



Reactants

Change

$a A + b B$



Products

$c C + d D$

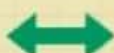
Counteract

I will increase reactant concentration



Then I will shift the reaction forward

I will steal products



I will shift the reaction forward

I will increase pressure



I will reduce number of moles

I will decrease pressure



Then I'll increase number of moles

I will heat up your exothermic reaction



I'll shift the reaction backward

I will put your endothermic reaction in ice



I'll warm it up by forward reaction

I will catalyze your reaction



Hahaha.... It won't disturb my equilibrium

I will add noble gases to your reaction



Hahaha.... It won't disturb my equilibrium

How did you bypass my tricks ?



It's Le Chatelier's principle dear !

