

¹²⁷ FACTORS THAT MAY AFFECT EQUILIBRIUM

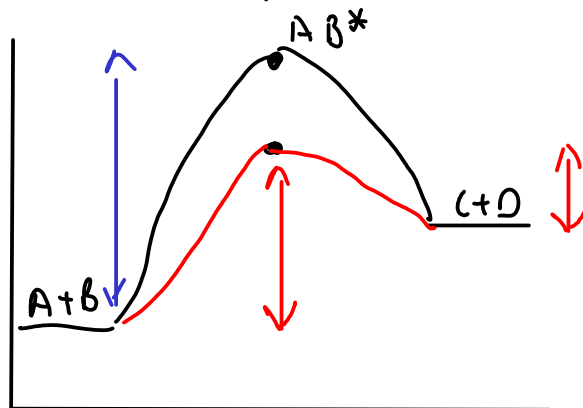
① TEMPERATURE (effect depends on whether reaction is endothermic or exothermic)

- Changes rate of reaction, too!
- ... changes K_c

② PRESSURE - only for gas-phase reactions which have different numbers of moles of gas on each side of the equilibrium. Otherwise, no effect.

- ... no change of K_c

③ CATALYSTS - do NOT affect equilibrium, but make the equilibrium state occur more quickly.



The catalyst raises BOTH forward and reverse rates, so it doesn't affect the composition of the equilibrium mixture!

④ CONCENTRATION - Le Chateleur's Principle applies for changing concentrations. An equilibrium will shift to counteract a change in concentration of reactant or product.

- ... doesn't change K_c .