LECHATLIER'S PRINCIPLE: TYPES OF STRESS 1. CHANGE IN CONCENTRATION

 $A + B \rightleftharpoons C + D$

ADD A OR B: SYSTEM => (WILL DECREASE A OR B)

ADD C OR D: SYSTEM (WILL DECREASE C OR D)

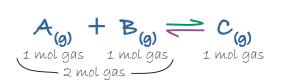
REVERSE SHIFT!

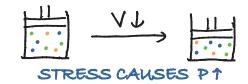
REMOVE A OR B: SYSTEM (WILL INCREASE A OR B)

REMOVE C OR D: SYSTEM => (WILL INCREASE C OR D)



2. CHANGE IN VOLUME (RESULTS IN CHANGE IN TOTAL PRESSURE)





SO, DECREASING VOLUME SHIFTS THE REACTION =>



3. CHANGE IN TEMPERATURE

 $A + B \rightleftharpoons C + HEAT \quad \Delta H < 0$

INCREASING T MEANS ADDING HEAT TO THE REACTION SYSTEM = DECREASING T MEANS REMOVING HEAT TO THE REACTION SYSTEM =>

HEAT + A + B \rightleftharpoons C $\Delta H > 0$

INCREASING T MEANS ADDING HEAT TO THE REACTION SYSTEM => DECREASING T MEANS REMOVING HEAT TO THE REACTION

SYSTEM =