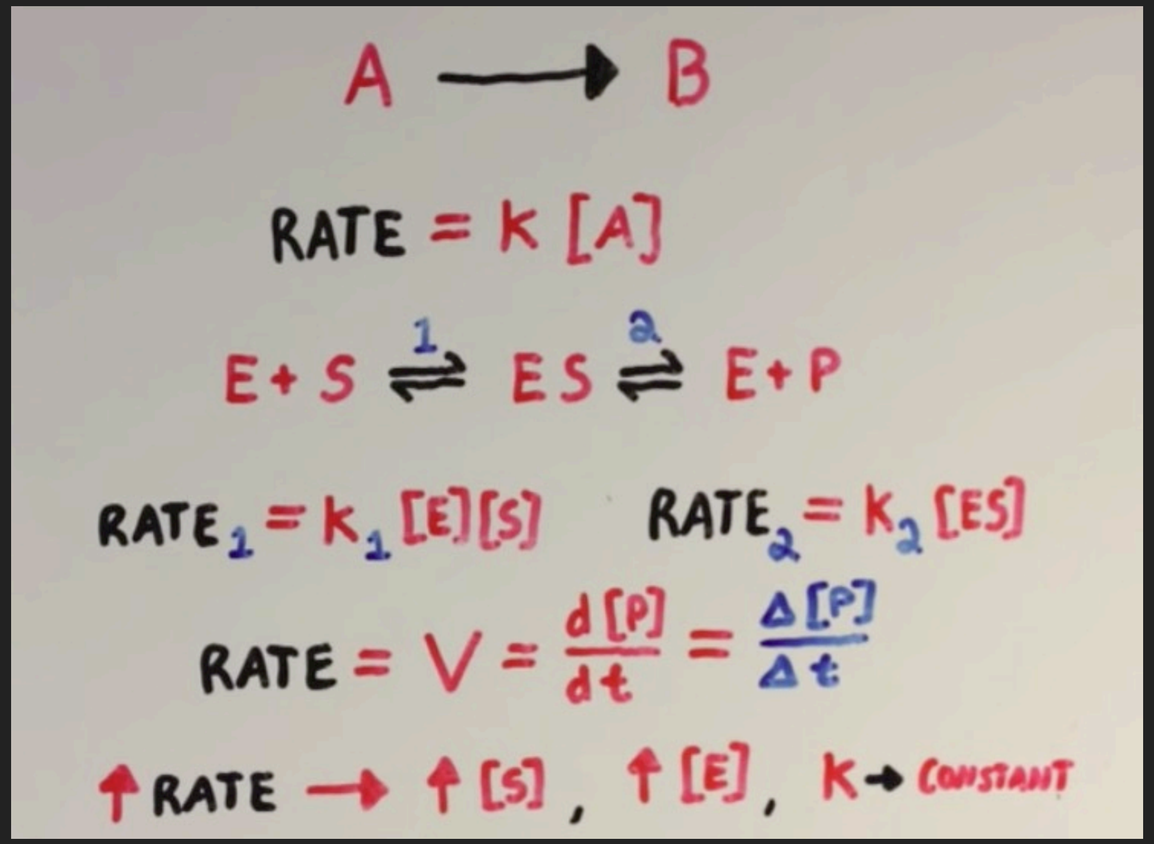
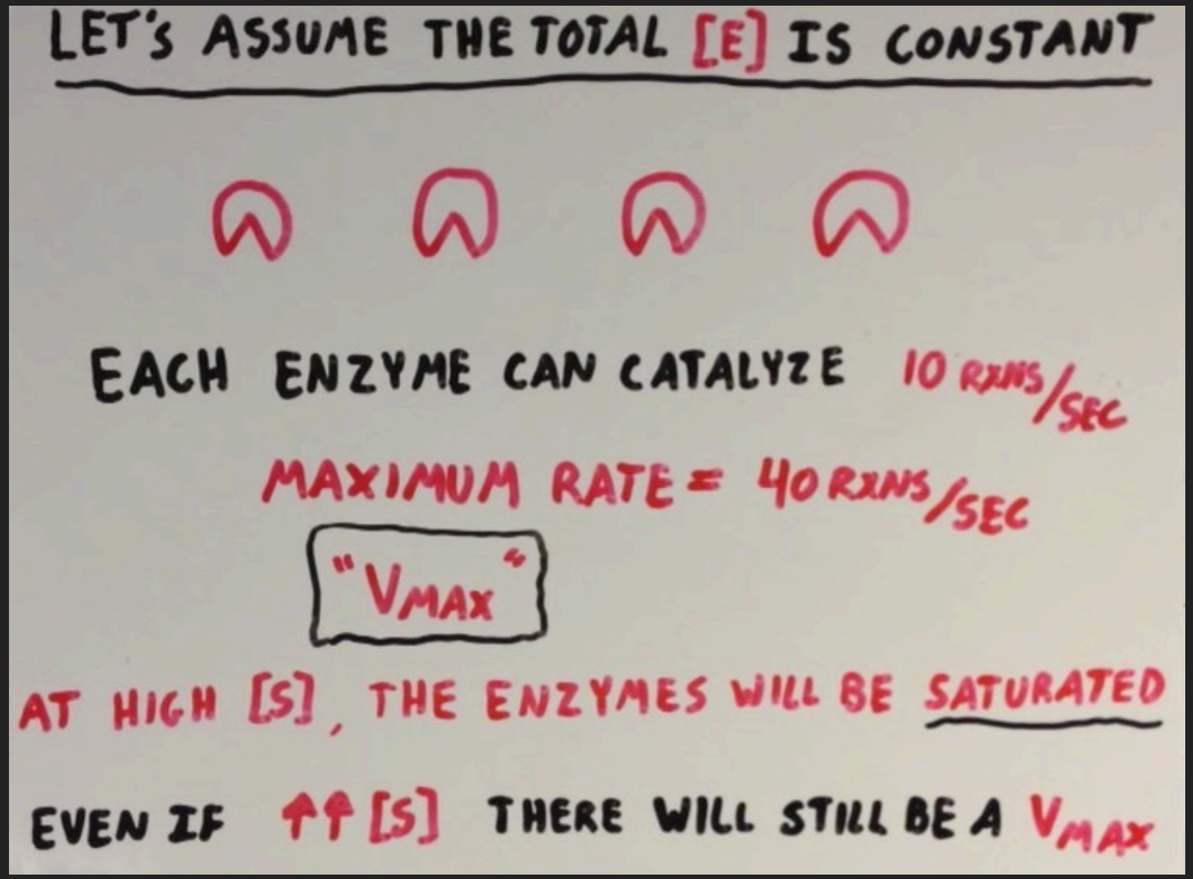
TEXT


A → B
RATE = k [A]
E + S ⇌ ES ⇌ E + P
RATE 1 = k 1 [E] [S]
RATE 2 = k 2 [ES]
RATE = V = d[P]/dt = Δ[P]/Δt
↑ RATE → ↑ [S], ↑ [E], k → CONSTANT

TEXT


LET'S ASSUME THE TOTAL [E] IS CONSTANT
EACH ENZYME CAN CATALYZE 10 RXNS/SEC
MAXIMUM RATE = 40 RXNS/SEC
"VMAX"
AT HIGH [S], THE ENZYMES WILL BE SATURATED
EVEN IF ↑↑[S] THERE WILL STILL BE A VMAX