

LET'S ASSUME THE TOTAL [E] IS CONSTANT

Amintroduction

EACH ENZYME CAN CATALYZE 10 RXIIS/SEC MAXIMUM RATE = 40 RXIIS/SEC KINETICS

AT HIGH [S], THE ENZYMES WILL BE SATURATED



Khan-Academyke vill

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$$A \longrightarrow B$$

$$RATE = K [A]$$

$$E+S \stackrel{!}{\rightleftharpoons} ES \stackrel{?}{\rightleftharpoons} E+P$$

$$RATE_1 = K_1[E][S] \quad RATE_2 = K_2[ES]$$

$$RATE = V = \frac{d[P]}{dt} = \frac{\Delta[P]}{\Delta t}$$

$$\uparrow RATE \longrightarrow \uparrow [S], \uparrow [E], K \rightarrow COMSTANT$$