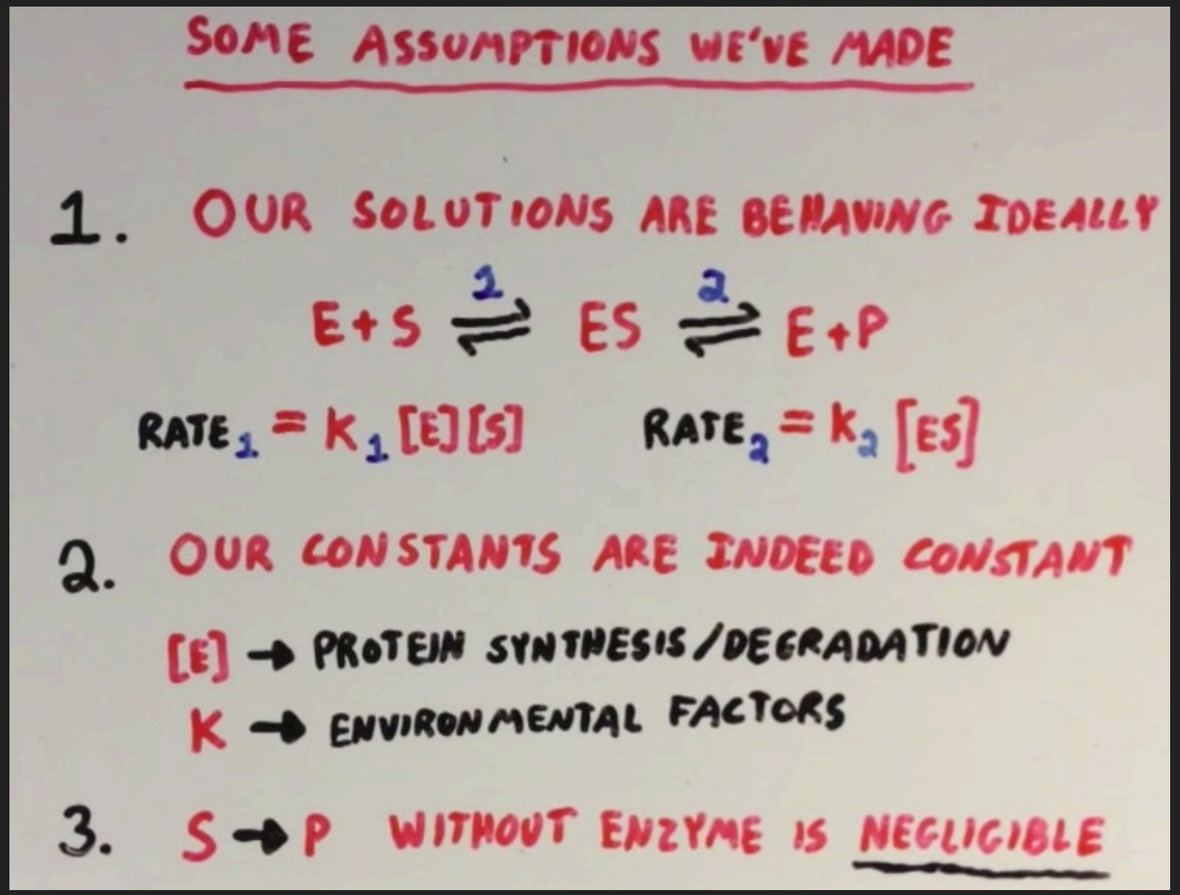
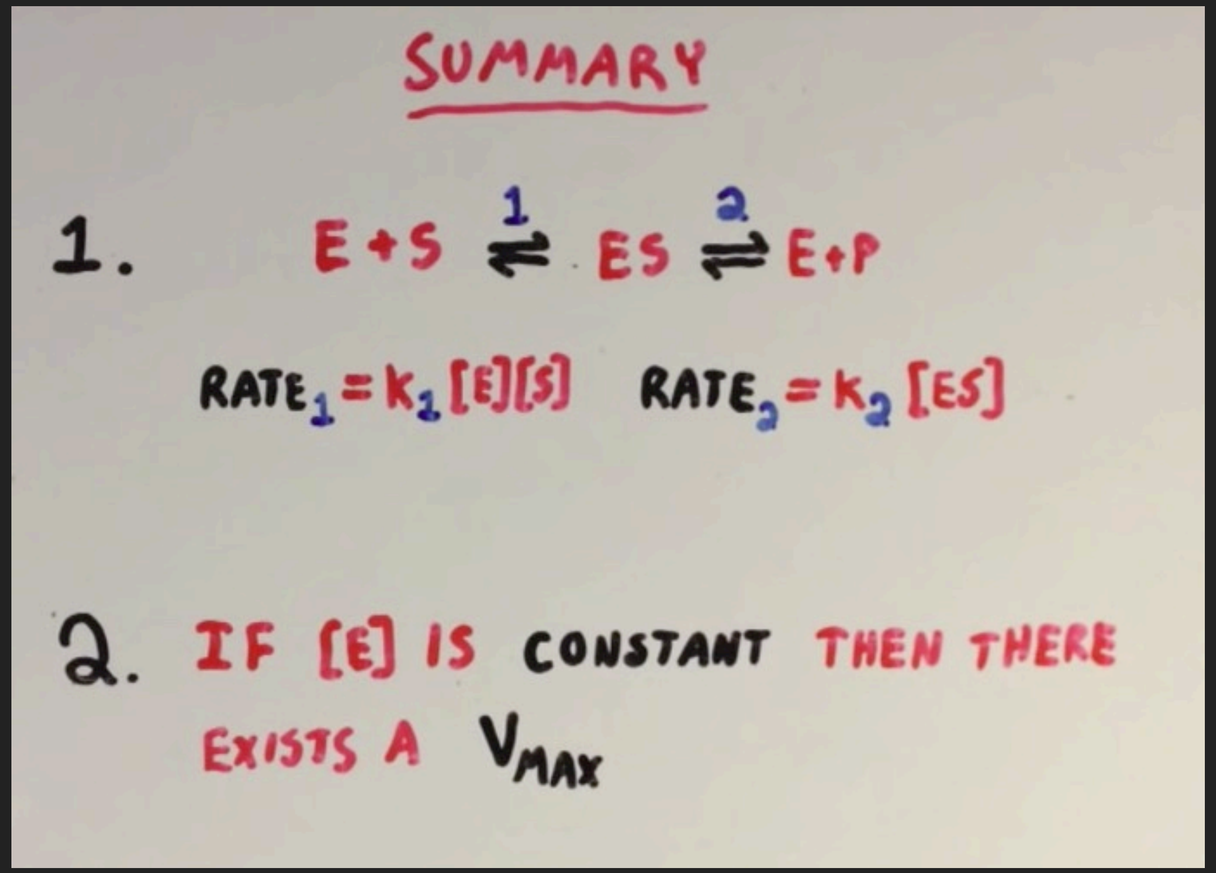
TEXT


SOME ASSUMPTIONS WE'VE MADE
1. OUR SOLUTIONS ARE BEHAVING IDEALLY
E + S ⇌ ES ⇌ E + P
RATE1 = k1 [E] [S]
RATE2 = k2 [ES]
2. OUR CONSTANTS ARE INDEED CONSTANT
[E] → PROTEIN SYNTHESIS/DEGRADATION
K → ENVIRONMENTAL FACTORS
3. S → P WITHOUT ENZYME IS NEGLIGIBLE

TEXT


SUMMARY
1. $E + S \overset{1}{\rightleftharpoons} ES \overset{2}{\rightleftharpoons} E + P$
$RATE_1 = k_1[E][S]$ $RATE_2 = k_2[ES]$
2. IF [E] IS CONSTANT THEN THERE EXISTS A V_{MAX}