

HOW MUCH DO YOU NEED TO STABILIZE TO GET RATE INCREASE? S K T.S.

$$\therefore P_{T.S.} = exp(-\Delta \sqrt{RT})$$

THIS GNES POURABILITY. WHAT AROUT RATE?

DIE: PG = 1 HOW OFTEN | GET 6: HOW OFTEN I ROLL XPG

FOR T.S.: PREFACTOR: TRIES PER UNIT TIME.

N DIFFUSION (USUALLY)

RATE

CHASTANT

FOR CONSTANT

HOW OFTEN I ROLL XPG

N BIOLOGY, S!

EA

COASTANT

K= exp(-Eq/RT) : HOW OFTEN SYSTEM SAMPLES T

RATE-LIMITING STEP. ONLY THING YOU SEE IF YOU WATCH REACTION.

TK: RATE OF TS

OK, SO WHAT CHANGE IN EQ WOULD LEAD TO 10" SPEED UP FOR TRYPSIA? $K_{EAZ} = A \exp(-\epsilon_{a}, e_{aZ}/e_{T}) \leftarrow c_{AT} \text{ RATE}$ $K_{HZO} = A \exp(-\epsilon_{a}, e_{aZ}/e_{T}) \leftarrow c_{ACAT} \text{ RATE}$ $K_{CAZ} = c_{ACA} = c_{ACA} c_$

SMALL DEA LEADS TO HUGE PATE INCREASE