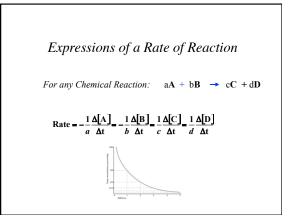
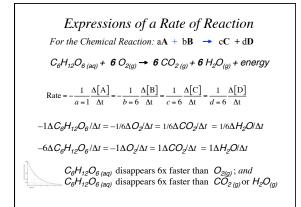
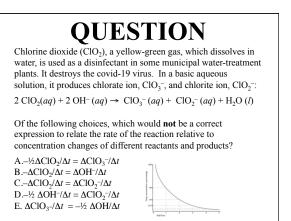
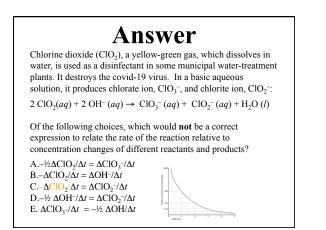


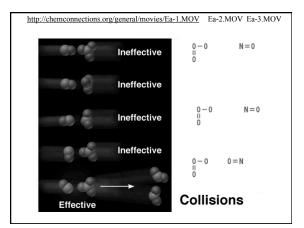
		ANSW	'ER	_	
If we have of A is as		action $A(g) \rightarrow 2B(g)$	g) and t	he numbe	er of moles
time moles A		0 0.100	5 min 0.085	10 min 0.070	
What is the	ne numt	ber of moles of B a	at 10 mir	ר?	
	A. B. C. D. E.		-0.07) molA <u>0</u> molA) molA	x 2 molB/1molA

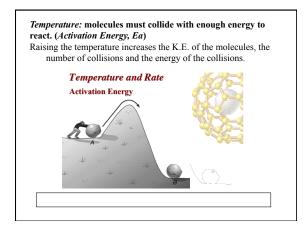


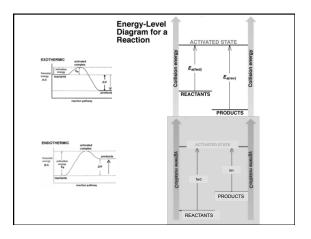


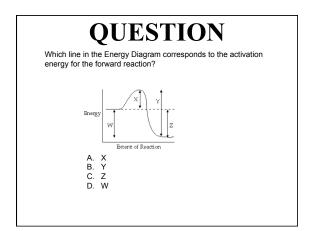


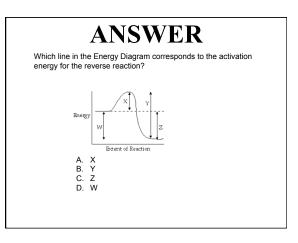


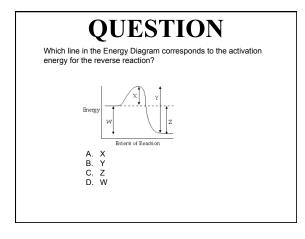


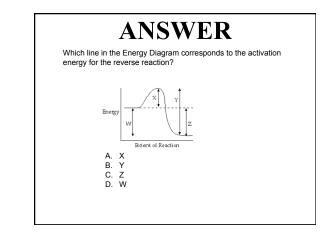


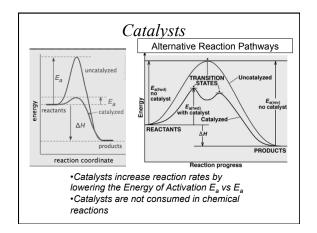


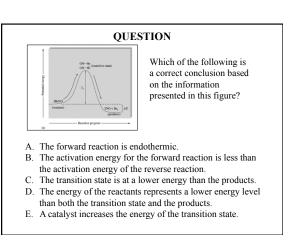


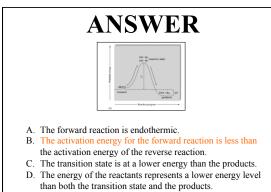




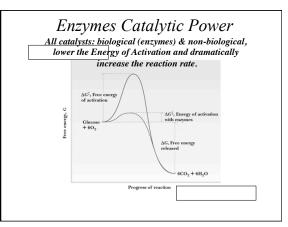


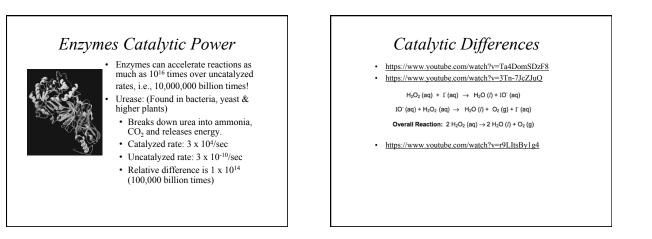


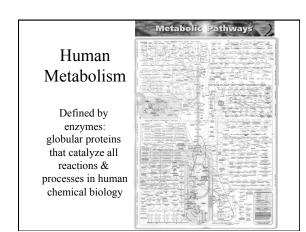


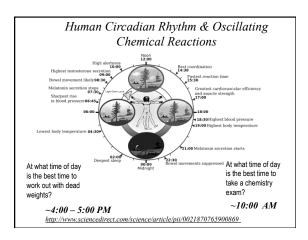


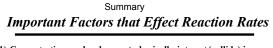
E. A catalyst increases the energy of the transition state.











Concentration: molecules must physically interact (collide) in order to react. The higher the concentration, the higher number of interactions/collisions

Physical state: molecules must physically mix in order to collide.

The physical state (solid, liquid, gas) will affect frequency of as well as the physical size of droplets (liquid) or particles in the case of solids. (heterogeneous vs. homogeneous)

3) *Temperature:* molecules must interact/collide with enough energy to react. (*Activation Energy, Ea*)

Raising the temperature increases the K.E. of the molecules, the number of collisions and the energy of the collisions. Relative shapes are very important. (*Catalysts lower the Activation Energy, E*)

