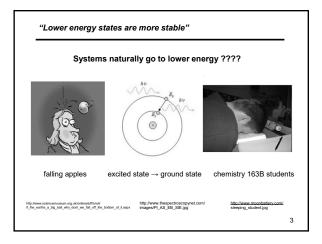
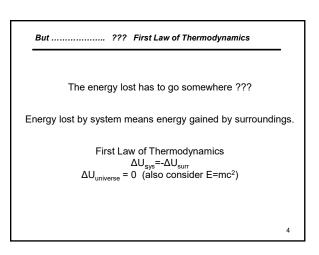
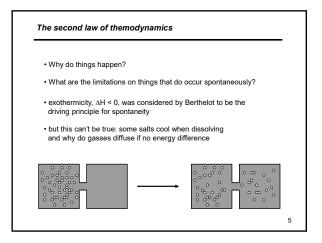
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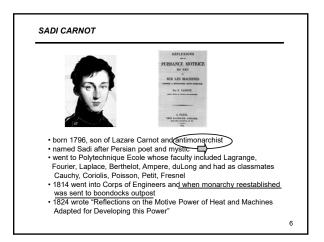
Chemistry 163B Winter 2020 <u>Heuristic</u> Introduction Second Law, Statistics and Entropy

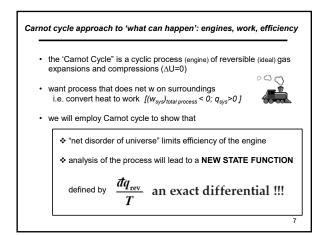


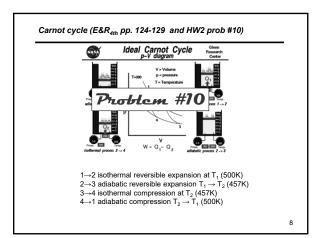


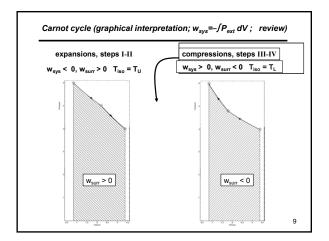


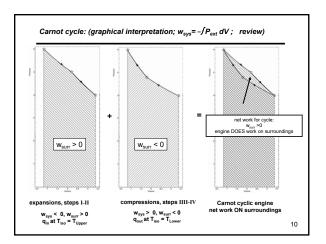


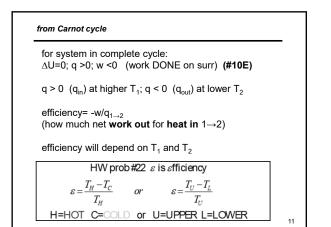


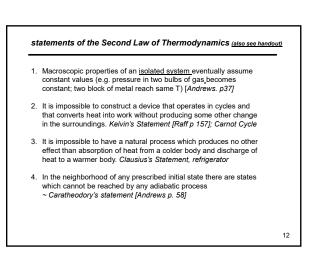


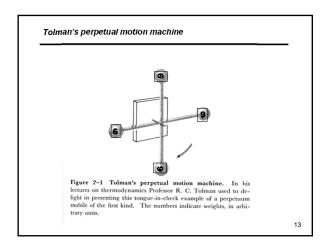


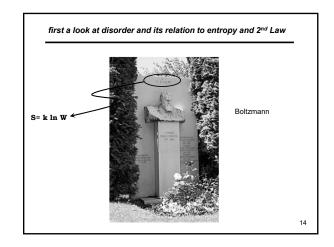


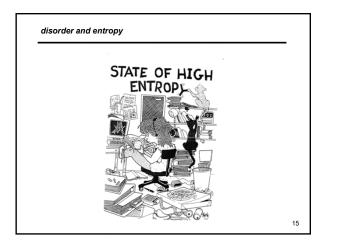


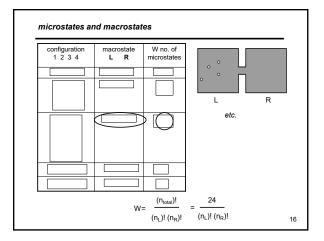


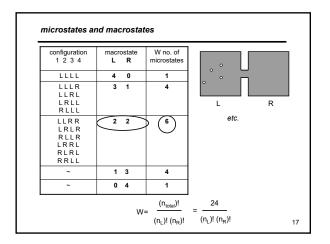


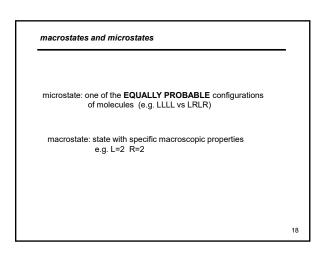


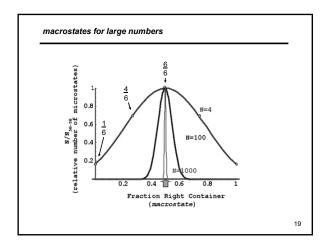


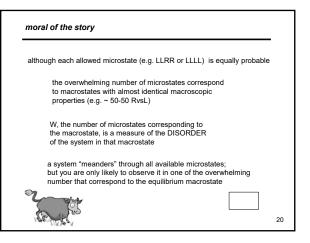


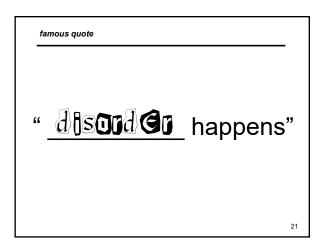


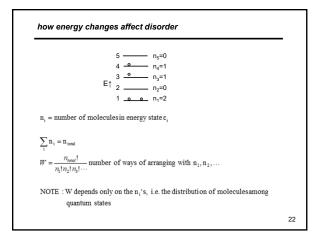


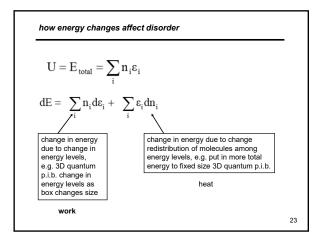


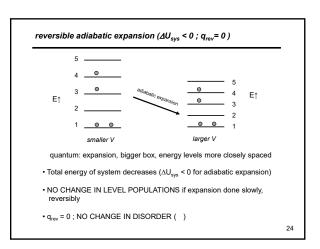


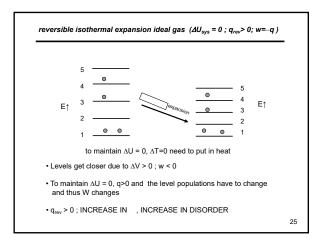


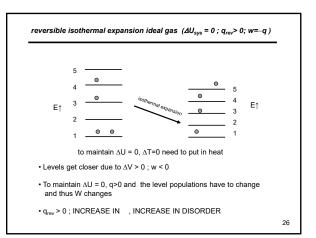


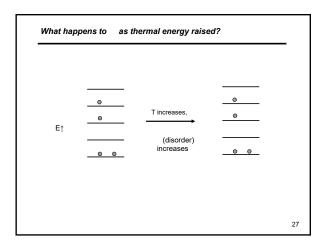


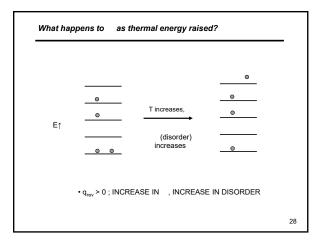


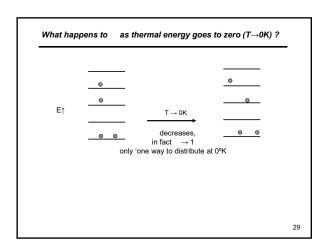


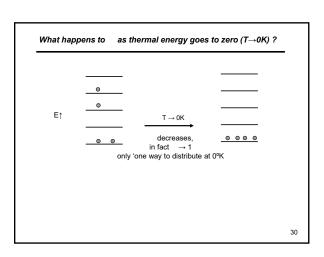


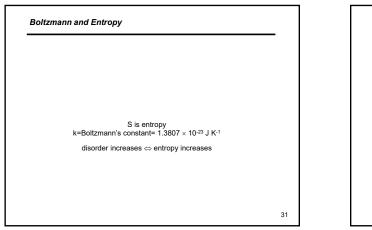


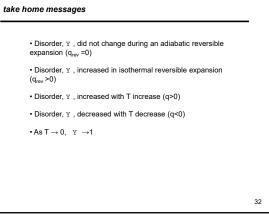


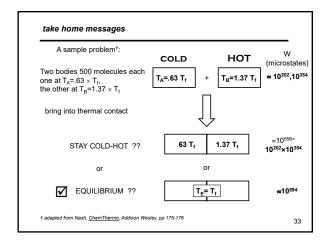


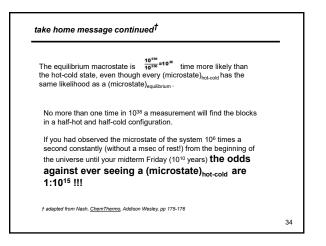


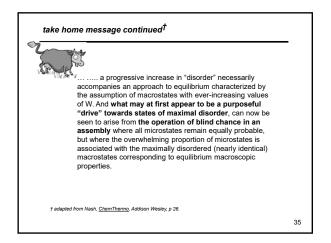












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Process 10 atm →1atm 300K → T <sub>f</sub>	<b>q</b> <sub>rev</sub>	rres 2-3-4 <b>Q</b> irrev	(T <sub>f</sub> ) <sub>rev</sub>	(T <sub>f</sub> ) <sub>irre</sub>
isothermal				
adiabatic				

Process 10 atm →1atm	q <sub>rev</sub>	q <sub>irrev</sub>	(T <sub>f</sub> ) <sub>rev</sub>	(T <sub>f</sub> ) <sub>irrev</sub>
$300K \rightarrow T_{f}$	5743J	2244 J	300 K	300K
adiabatic	(	0 192K-→119K <sup>I</sup> (C <sub>F</sub> ΔT) - <b>1517J</b>	119K	192K ↓ 119K

