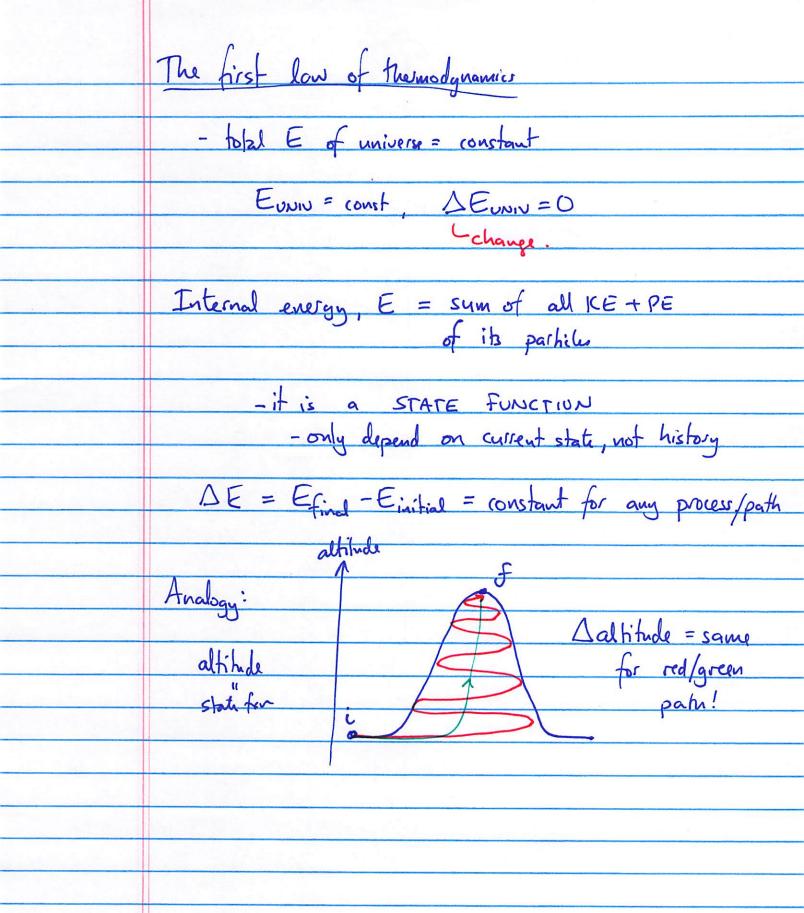
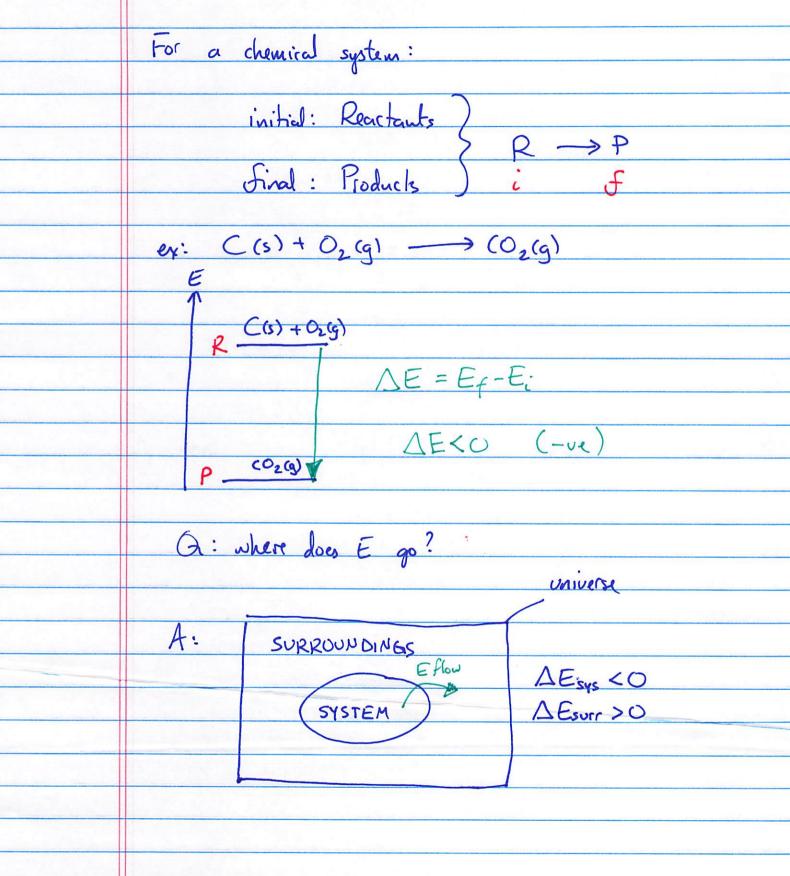
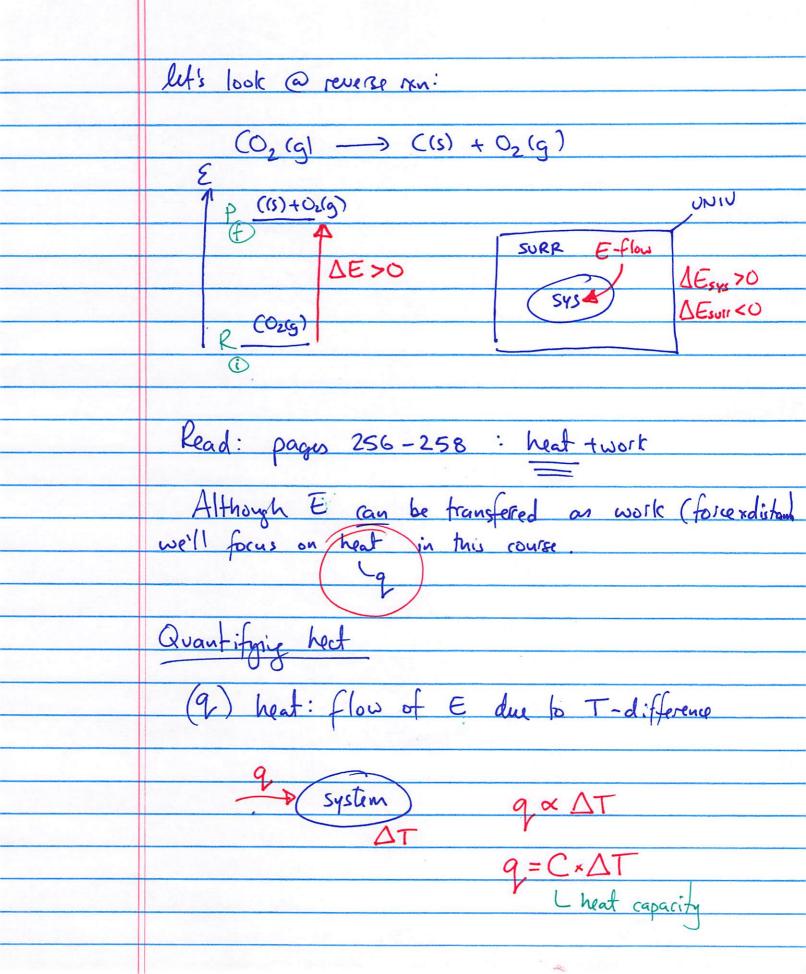
10/31/2018 Kg m2/52 SI derived unit: | joule (J) = 1 kgm²/s² James Joule -English scientist + brewer 1818-1889 Power = Energy J'or W 5 Lwatts (James Wat.) light bulbs: 100W = 100J/s 15 2 energy of a heartbeat On au's, in us, adult: 900 MJ/day.
900×10°J 9.00,1085







 $q = C \times \Delta T \Rightarrow C = q$ ΔT ImL HO Q: Which one IL HEO takes much takes way more

C= 1/5T less q to q to change

Toc ock

Toc ock has the largest large C Problem: C is extensive Much bette : use specific heat capacity: Cs g.oc > Cs = C - extensive

A m extensive

intensive q Cs = heat capacity per gram. 9 = CXAT q= Joses q= m × Cs × DT