Disclaimer

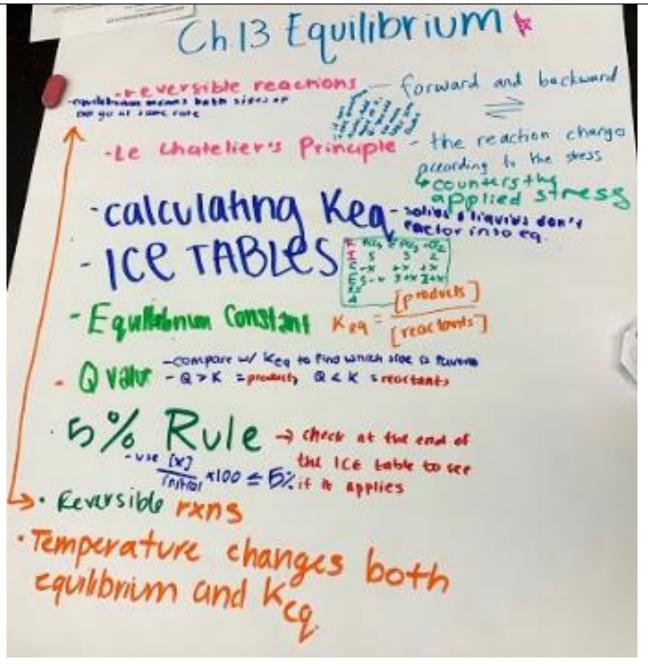
These posters were edited by students in class – there may be incorrect information on these posters. If you notice anything incorrect please let your teacher know so they can try and update the photo.

Chapter : Gas Laws ·Kelvins-Absolute Og OC= 273K · Ideal Gases vs. Real Gases Particip's Law of Partial Pressu @ Gas Stoichiometry P-273K, 1atm Boyle's . Ch Avogadrois rles', Gay-Lussais, combined chong 1A => mol B Boyle's : P, V, = P2 Ve charle's: VI : 12 Gray Lossac's. PI Avogordos : combines : Ideal -> PV=NRT

Chapter 10: Thermochemistry · Specific Heat: JAL " · Heating/ Cooling Curves · Q = m CA Timer un · 1 St Law of Thermodynamics memo opposite Malorimetry - Q=-Q. *Mixed-Phase Calorimetry Heating Curve -use Latent Heat G= MCOT Latent heat cice = 2.00 More L toxich = 334 JM N= mL Cwater = 4.15 Jlot Q = ML Lifusom = 2260 Jlg Q=mQBt

Dolutions (1) UJ# 6telotormoles Molarity Ppm = got state +1,000,000 6 comp = 3 of Salute = 100 90 Hile Fraction Solubelity ing ine. solu - increase temp stulie to same (biled ante of 5411 gas ++ temp dinne T pressure Solute - Sal whitence that ders the direction х 0110 IN. IN 1 more than the may XIIIIII less the me amount of some (oncentration 3/L, % 40035. (ppm) N, - can solve for any vowe ic PESAL Or P + L matter otherr are given

CHAPTER 12 KINETICS Rate LAWS - units of rate constant 1) Temp Factors that Affect Reaction Rate Reaction Rate - tolve with 1) (otalysts 0[1] Average Rate 01 to pt in sime Hate Expression - A[C] = -Activation Energy - CHOPE A STREET Catalys how much energy is needed to start a mection Activation Transition - Instantaneous Rake - rate @ one State consier Enurgy reaction mechanism point in time and takes lope ! - use tangent line slowest step-can only go as Final on slowest ske

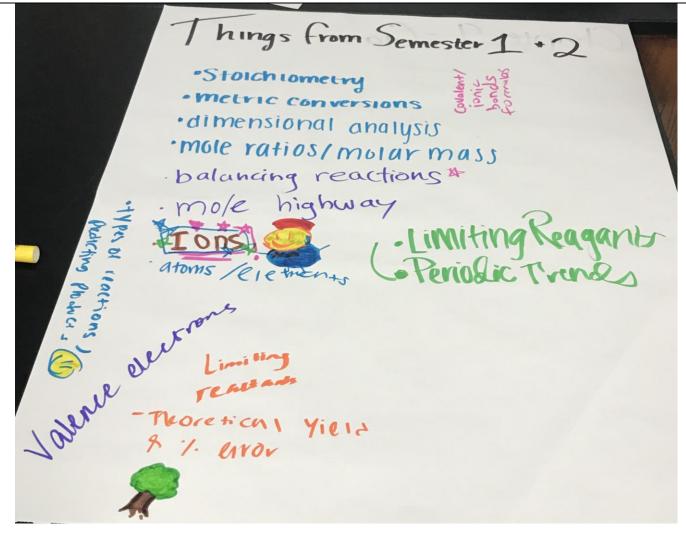


ACIDS 1 - 6 pH: - HUNENE HARSES B 14 ALL SURA weak vs. strong 110 21, 10 SEISP. 1-10 dization : Tan Hut K. 6M ore Satts SOHL A Pak hydrolizing 1.00 107 . K D and Ka Ku IK. Ka 10 Water ionization -Kbs POH - Comenter [01-][H.] caloulation bases: cicl as COT RUNSE 100 acids 1 act 0.5 -[04]] - [610] WAIWB on 107 Titrations Svertte want - YEASH CURYLA STRATION (reale Titrand -) unknown concentration neutros Cfield (Analyte) - nomenelature: "Oxyacids: root of ion +ic/ + acre binary acros ; hydro + root of ion + ic acro

Common Mistakes, Warnings, tips, etc... - Calculator mistakes -- Algebra mistakes · careful of units < _ mL > L > ML KHOBDCM · Know your ions! - & strong bases -Forgetting Negatives -- log(Remem -Don't forget your concepts!! equation Also study Know what the question is asking (Main up the?)

don + ist semester that don way second Jemeste AMAS From onal Analysis - converting units Dimenti mole -> grams a ometry -> mulaappres to ands bases Mole Mole ANCIM relast bases lewis str Ures 4 double, triple bonds Predicting Products Periodic Table

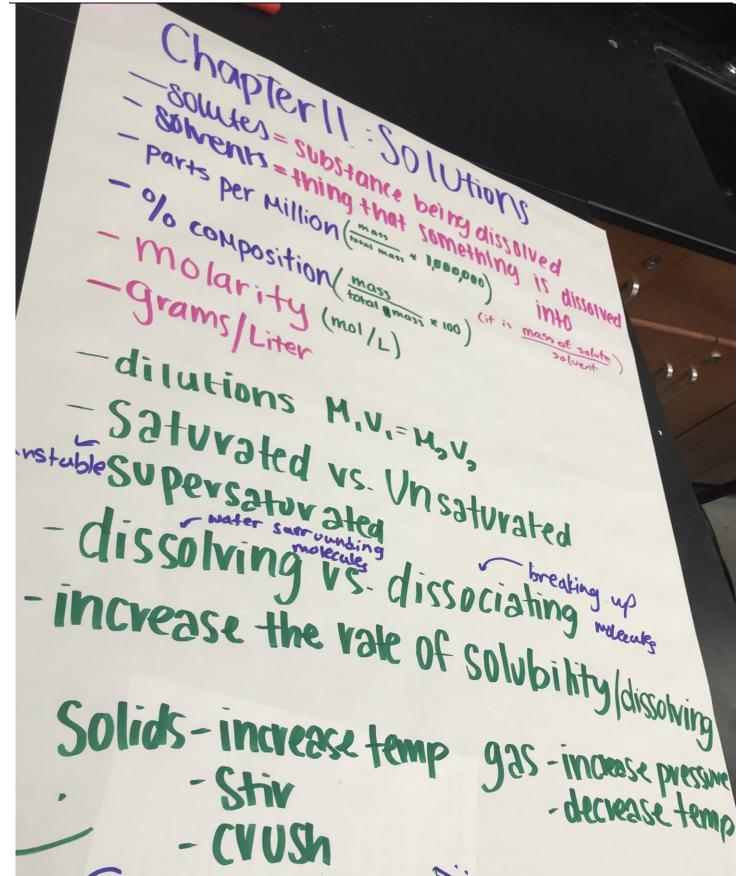
(warnings, tips) Don't forget units . Make sure to convert to right Units · Marorize ionr, stary A/B, etc. - don't USC Solids: - Be careful w/ parentheses liquids in ICE - check acids for monoprotic/polyprotic tables. - check the # of OH's in bases cuz Mole Fractions MATTER & check H's Be Careful while using Columnators ead roblems hist IT))-Cross over us king to noks or groins . Groi

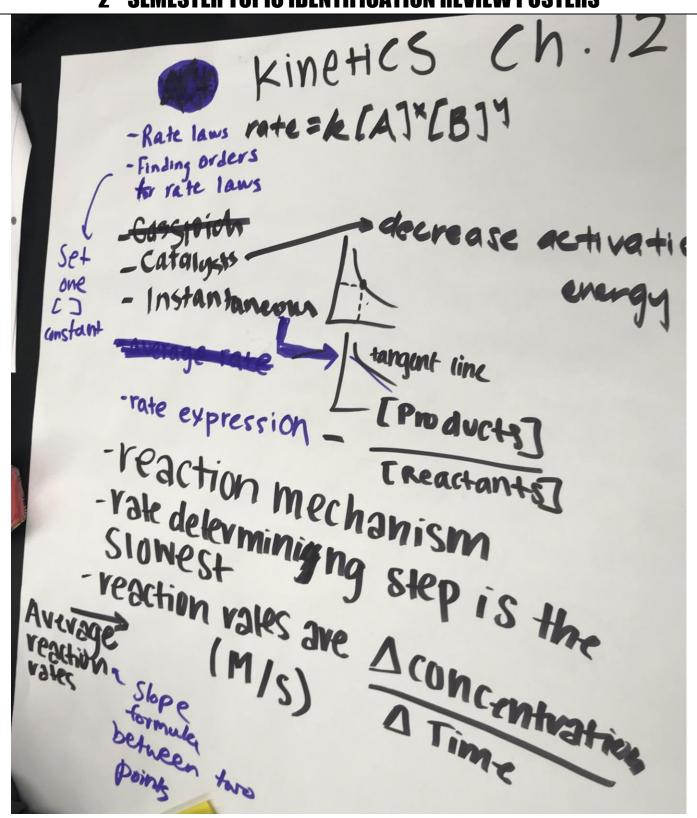


SPRING FINAL EXAM REVIEW 2nd SEMESTER TOPIC IDENTIFICATION REVIEW POSTERS

CHAPTER 9 GASLAWS Pv=nRT · Kelvins = 27 ·Basic Gas Laws · Partial Press ure Boyle's Dw, Charle's Dw, Gay Lussac's Dw Avogadvo's law, combined gas laws · Kinetic Molecular Theory R= 0.0821 Kind - Collecting Glas over Water : Units & Conversions (atm, pri, Pa, kpa, two, wonthy, K, C, F;...) - Mole highway - yas Stoichiemetry

molar heat) -specific hea corves => m(-heating Ecooling -heat capacity -latent Heatl near diagram phas. wuter ill triple point gas -Multiple phase change calculations





Chapter 13: Equilibrium Ice Table, Chatlier's Principle if a stress is applied to a reaction at equillibr then the reaction d Values to velieve stress (Keg/Kc/Ksp) Ly if the pressure Steps eases, it shifts to the Side to the side with Quote tener moles of ass C + D Reaction - Equilibrium Stressors Initial - Temp. - Pressure (gas) Concentration - conuntrations EquilibriuM ,5% K= CCJCDJ Answer ,000x smaller - check using (x) - loo n Initial []. besn't mean reaction stops, just that rates going -> and - are the same

