



Big Chem Final Review



Although you may use your notes on the Final Exam, there is insufficient time to look up very much. You MUST know your stuff for this exam!!!

Practice your notes **in writing!** Here are some things to be sure you know:

All **Symbols** and **Valences** and **Formula Writing!** Practice on the computer disk and **in writing** on the practice sheet. Practice **Balancing Equations!**

Practice **in writing** each type of chemical problem. For Example:

The Gas Laws
Boyle's Law
Charles' Law
Combined Gas Laws
Ideal Gas Law Equation
Vapor Pressure
Boiling Point

Dalton's Law Partial Pressure
Correct to STP
Graham's Law of Diffusion
Density of Gases
Molar Volume
Equations with Gas Volumes
Molarity of Solutions, M

The Big K of Equilibrium
The Principle of Le Chatelier
Solubility Product
Will a ppt form?
Get Moles
From mass
From Concentration, M

Terms: Be able to Define, Explain, and Provide Examples for these terms:

Liquids	Molar Volume	Ionization	Particles	the Chain
Vapor Pressure	STP	Acid	Accelerators	Reasons for so
Boiling Point	Correct to STP	Three Types	Linear	many Organic
Two ways to boil	Density of Gases	Arrhenius	Circular	Compds
Charles's Law	MM for Gases	Bronsted	Half-Life	Types of
Absolute Temp	Enthalpy	Lewis	Transmutation	Formulas
Melting Point	Entropy	Base	Nuclear Reactors	Qualitative
Warming curve	Min Energy	Salt	Parts of Reactors	Analysis
for H ₂ O	Max	Props of Acids	Nuclear Fission	Theory
Triple Point	Randomness	Props of Bases	Nuclear Fusion	Separation
Heat of Fusion	Solutions	Ionic Equations	Nuclear Bombs	Identification
Heat of	Solute	Big K for Ions	Radioactive	Silver Group
Vaporization	Solvent	Common Ion	Dating	Separation
Surface Tension	Concentration	Effect	Organic	Cu-As Group
Capillarity	M= mol/liter	Electrolytes	Chemistry	Separation
Ducky	At Equilibrium	Big K for	Alkanes	Al-Ni Group
Humidity	Ions &	solubility	Alkenes	Separation
Psychrometer	Molecules	Big K for Water	Alkynes	Ba-Mg Group
Gases	Colligative Props	The pH Scale	Alcohols	Separation
Boyle's Law	Suspensions	The Hydronium	Phenols	Flame Tests
Charles' Law	Colloids	Ion	Ethers	Sodium
Dalton's Law of	Fractional	Hydrolysis	Aromatic	Potassium
Pressure	Distillation	Buffers	Compounds	Barium
STP	Catalyst	Titration	Benzenes	Sep Cu Group
Principle of	Reaction Rate	Oxidation	Phenols	from As Group
Le Chatelier	Pressure	Reduction	Aldehydes	Sep Al Group
Regelation	Temperature	REDOX	Ketones	from Ni Group
Shift	Concentration	Balancing by	Acids	Amphoterism
Equilibrium	Surface Area	Oxidation Table	Esters	Paranitrobenzene
Pressure	Nature of	Oxidation	Amines	azoresorcinol
Temperature	Reactants	Numbers	Organic	Flocculent Blue
Concentration	Catalyst	Electrochemical	Reactions	Lake ppt.
Sublimation	Rate Law	Cells	Halogen	Dense White
Gases	Reaction	Battery of Cells	Substitution	<i>Fumes</i>
Boyle's Law	Mechanism	Electrolysis	Halogen	Centrifuge
Charles' Law	Equilibrium	Nuclear	Addition	Decant
Combined Gas	Constant	Chemistry	Pyrolysis	Precipitate
Laws	Theory of	SubAtomic	Wurtz doubles	
Ideal Gas				
Equation				
Dalton's Law of				
Partial Pressure				