TOPICS FOR THE CHEM 101 FINAL EXAM

	Inorganic Nomenclature
	Metric System
	Density
	Solubility of Ionic Compounds
	Kinetic Molecular Theory
	Ideal Gas Law
	Boyles Law
	Charles Law
	Gas Density
	Combined Gas Law
	Dalton's Law
	Thermochemical Equations
	Exothermic / Endothermic Processes
	Heat Calculations
	Hess's Law
	DH of formation
	Stoichiometry/Limiting Reagent/Theoretical Yield/Percent Yield
	Avogadro's Number
	Percent Composition by Mass
	Balancing Equations
	Isotopes / Isotopic Symbols
	Atomic Orbitals
	Quantum Numbers
	Electromagnetic Radiation – Energy/Frequency/Wavelength
	Continuous Spectra / Line Spectra / Energy of Transition
	Orbital Diagrams
	Electron Configuration
	Trends in the Periodic Table
	Oxidation numbers
	Lewis Dot Structures / Octet Rule / Formal Charge
	Use of Bond Energies
	VSEPR Theory / bond angles
	Valence Bond Theory
	Bond Polarity / Molecular polarity
	Resonance Structures
	Molecular Orbital Theory
	Electrolytes / Nonelectrolytes
	Intermolecular Forces of Attraction
	Classification of Reactions
ч	Acid-base
	Oxidation-reduction / Oxidizing Agent / Reducing Agent
П	Precipitation
	Moleular / Ionic / Net Ionic Equations
	y 1
_	measurements
Ц	Temperature Conversions
	•
	All constants are given