Information for Course Syllabus

Name of Course: Chemistry II Honors / AP Chemistry

Grade Level: 10-12

School: ORHS

Major Assignments: Small projects that are typically done in groups during class time.

Field Trips: None

How can parents access instructional materials? Canvas

Term 1

60	Molecules & Elements
Jdin	Chemical Analysis
Bol	The Mole
ties,	Coulomb's Law
per	Electron Configuration
l Pro	Periodicity
nica	Atomic Models
hen	Mass Spectrometry
nd (Light and Matter
2: Atoms, Physical and Chemical Properties, Bonding	Solids & Liquids
hysi	Gases
IS, PI	Solutions
tom	Intermolecular Forces
2: A	Covalent Bonding
and	Ionic Bonding
┪	Metallic Bonding
Big Idea	Lewis Diagrams & VSEPR Models
Big	Solids

Term 2

	Molecular, Ionic, Net Ionic Equations
3 and 4: Stoichiometry and Chemical Reactions	Stoichiometry
	Synthesis, Decomposition Reactions
	Neutralization Reactions
	Redox Reactions
	Chemical Change Evidence
	Endothermic & Exothermic Reactions
	Electrochemistry
	The Rate of Reactions
	The Rate Law
	The Rate Constant
	Elementary Reactions
	Activation Energy
	The Reaction Path
dea	Multistep Reactions
Big Id	The Rate-Limiting Step
_	Reaction Intermediates
	Catalysts

Term 3

	Temperature
and Bases	Energy Transfer
	Conservation of Energy
	Energy Changing Processes
	Calorimetry
	Bond Length & Bond Energy
	Enthalpy of Reaction
ids	Intermolecular Potential Energy
A Ac	Chemical & Physical Processes
anc	Biological & Polymer Systems
CS	Entropy
6: Thermodynamics and Acids and	Spontaneous Processes
	Using Gibbs Free Energy
	Driving Nonspontaneous Processes
	Kinetic Reaction Control
Ļ	Reversible Reactions
a 5 and	The Reaction Quotient
	Equilibrium
	The Equilibrium Constant
	LeChatelier's Principle
Big Idea	Equilibrium Disturbances
Ω	Acid-Base Equilibrium
	pH & Buffers
	Solubility
	Free Energy & the Equilibrium Constant

Term 4 AP Exam Review Intro to Organic Chemistry and Biochemistry