

Teacher: White Course: SCH 3UI - 2018 Date: Feb 1, 2018 8:30 AM

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	TOTALS
Name of Unit	Matter and Chemical Bonding	Chemical Reactions	Chemical Quantities	Solutions and Solubility	Gases	
True/False	1	6	6	7		20
Multiple Choice	8	10	5	7		30
Completion	4	4	1	4	2	15
Written Response	(9)	(8)(4)	(4)(5) (6)	(2)(4)(3)	(4)	50
Choice	(3)		(6)	(2)		10
TOTALS	25	32	33	29	6	125

Section	Topics	
Matter and Chemical Bonding	<ul style="list-style-type: none"> ❑ Chemistry math ❑ Ionic/Covalent Bonding ❑ Lewis structures ❑ Atomic Radius ❑ Electron Affinity ❑ Ionization energy ❑ Polyatomic Ions ❑ Bond Polarity ❑ Hydrogen Bonding ❑ London Dispersion Forces 	<ul style="list-style-type: none"> ❑ Intramolecular forces ❑ Naming/Formulas ❑ Periodic Table ❑ Anions/Cations ❑ Electronegativity ❑ Dipole-dipole attraction ❑ VSEPR theory (shapes, bond angles etc) ❑ Polar/Non Polar Molecules ❑ Van der Waal forces ❑ Isotopes
Chemical Reactions	<ul style="list-style-type: none"> ❑ Decomposition reactions ❑ Activity Series ❑ Single displacement reactions ❑ Complete combustion ❑ Double displacement and gases 	<ul style="list-style-type: none"> ❑ Double displacement reactions ❑ Balancing Equations ❑ Synthesis Reactions ❑ Incomplete combustion ❑ Ionic equations (total/net)
Chemical Quantities	<ul style="list-style-type: none"> ❑ Balancing Equations ❑ Moles ❑ Molar Mass ❑ % Composition ❑ Empirical Formula ❑ Molar Concentration ❑ Carbon-hydrogen combustion analysis 	<ul style="list-style-type: none"> ❑ Molecular Formula ❑ Stoichiometry ❑ Avogadro constant ❑ Molar Ratios ❑ Limiting reactant
Solutions and Solubility	<ul style="list-style-type: none"> ❑ Precipitates ❑ Neutralization and Titration ❑ pH ❑ Arrhenius vs Bronsted-Lowry ❑ Solubility and Solubility curves ❑ Solute and Solvent 	<ul style="list-style-type: none"> ❑ Conjugate Acid Base pairs ❑ Concentration (% and ppm) ❑ Factors affecting rate of dissolving and solubility ❑ Molar concentration ❑ Solution stoichiometry
Gases	<ul style="list-style-type: none"> ❑ Kelvin vs. Celsius ❑ STP/STAP ❑ Boyle's Law 	<ul style="list-style-type: none"> ❑ Charles' Law ❑ Gay-Lussac's Law ❑ Combined Gas Law