Worth County Chemistry and Honor's Chemistry 2017-18

	1st 9 WEEKS	2nd 9 WEEKS	3rd 9 WEEKS	4th 9 WEEKS
Week 1	• Course introduction • Scientific Method • Lab Safety • Lab procedures	Bonding (SC2d, SC2e) • Ionic Formulas and Naming • Covalent Formulas and Naming • Electronegativity and bonds	Reactions • Stoichiometry (SC3d, SC3c)	Solutions (SC6e) • Colligative Properties
Week 2	• significant figures • scientific notation • accuracy/precision	Bonding (SC2d, SC2e) • Ionic Formulas and Naming • Covalent Formulas and Naming • Electronegativity and bonds	Reactions • Stoichiometry (SC3d, SC3c)	Acids/Bases (SC6f) • Properties and uses of common household • pH
Week 3	• significant figures • scientific notation • accuracy/precision	Bonding and Compounds • Identifying types of bonds (covalent and ionic) • Percent Composition	Reactions • Stoichiometry (SC3d, SC3c)	Acids/Bases (SC6g,h) • Arrhenius • Bronsted-Lowry • Neutralizations
Week 4	Characteristics of Matter • Physical and chemical properties/changes (SC2a, SC2b) • Relate function and properties (SC2c)	Bonding and Compounds (SC3c) • Percent Composition • Empirical/molecular formulas	Reactions • Limiting Reactants (SC3e) • Percent Yield (SC3c)	Gas Laws (Sc5b) • States of Matter • Phase Changes—heating curve • Flow of energy during phase change
Week 5	Atomic Structure • Atomic theory/models (SC1a) • Subatomic particles (SC1b,SC1e) • Fission/fusion (SC1c)	Reactions • Types of reactions (SC3a)	Reactions • Limiting Reactants (SC2e) • Percent Yield (SC2c)	Gas Laws (SC5c) • Ideal and Combined
Week 6	Atomic Structure • Moles (SC3c) • Relative and average atomic mass (SC1d)	Reactions (SC3a) • Predicting & Balancing reactions • Activity Series	Reaction Energy (SC4b,c,d) • Activation Energy • Catalysts • LeChatelier's principle	Thermodynamics • Heat energy (SC5a) • Begin Capstone project
Week 7	Periodic Trends • Orbital and electron configuration (SC1g)	Reactions (SC3a) • Predicting & Balancing reactions	Reaction Kinetics • P, T, concentration, and catalyst effects (SC4a)	Capstone Project
Week 8	Periodic Trends (SC1f) • Atomic radius	Reactions (SC3b)	Solutions (SC6a,b,c,d • Solubility factors	Capstone Project—presentations Review for Final Exam

Common Core Literacy standards will be incorporated throughout the course. Updated 5/25/17

	• Ionic radius • Ionization energy • Electronegativity	• Indicators of a chemical reaction	• Solubility rates • Concentration (dilutions)	
Week 9	Bonding (SC2d) • Types of ions(SC2d) • Electronegativity in bonding	Review and Midterm Exam	Solutions • Molarity • Molality • Concentration	Review for Final Exam