

# Year At a Glance: Honors Chemistry

## 2019-2020

	Week	Major Concepts / Topics	Possible Resources
Quarter 1	1-3	SC.912.N.1.1-1.7, SC.912.N.2.4: Beginning Science skills including lab safety, calculator use, investigation variables, graphing skills, beginning math skills (scientific notation, etc.)	<b>Cpalms. Org</b> for all topics. <b>Florida Student.org</b> : all topics <b>Bozemanscience.com</b> : History of the Atom, Matter, Significant Digits. <b>Tyler DeWitt (You Tube)</b> : Multiple excellent videos on all topics.
	4-5.5	SC.912.P.8.1, P.12.11, P.10.1, P.10.2, P.10.5: states of matter, phase changes, temperature's relationship to average kinetic energy.	
	5.5-9	SC.912.P.8.2-8.4: Physical/chemical properties and changes, Atomic Theory, structure of atoms.	
	Week	Major Concepts / Topics	Possible Resources
Quarter 2	1-4	SC.912.P.10.18, 10.9, 8.5: energy quantization, electromagnetic spectrum, electron configurations, orbital diagrams.	<b>Bozemanscience.com</b> : Chemical Bonds, Naming Compounds.
	5-9	SC.912.P.8.7, 8.6: Ion formation, covalent and ionic bonding, writing and naming chemical formulas.	
	Week	Major Concepts / Topics	Possible Resources
Quarter 3	1-4	SC.912.P.8.8, P.12.12, 12.13, P.10.6, 10.7: Writing & balancing chemical equations, characterizing reaction types, energy, equilibrium.	<b>Bozemanscience.com</b> : Factor Label Method.
	5-9	SC.912.P.8.9: Stoichiometry including empirical and molecular formulas, percent yield, calculations for grams, moles, particles.	
	Week	Major Concepts / Topics	Possible Resources
Quarter 4	1-3.5	SC.912.P.12.10, P.10.8: Gas Laws, Entropy.	<b>Bozemanscience.com</b> : Acids, Bases & pH
	3.5-4.5	Sc.912.P.8.11: Acids	
	4.5-5.5	SC.912.L.18.12: Properties of Water	
	5.5-7	SC.912.P.10.10-10.12: nuclear forces/reactions.	
	7-9	SC.912.P.8.12, 8.13: Carbon Chemistry	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.