Chapters	Week	Discussion Topics	Homework Due on Tuesdays	Laboratory
Every Thursday,	there will be an	in-class quiz covering material from your readings/ lab	ooratories/ homework for the week	k
Chapter 1 – Atomic and Molecular Structure	Week 1 Aug. 24 th	Introduction to Organic Chemistry, atomic structure, electron configurations, covalent bonding, Lewis structures and octet rule, electronegativity properties of bonds, ionic bonds (pp. 1 - 20, to Section 1.9).		Lab 1 – Writing Lewis Structures
	Week 2 Aug. 31 st	Writing formal charges, resonance theory, molecular representation in various notation forms (pp. $20-39$, stop at Section 1.15).		Lab 2 – Writing Formal Charges
	Week 3 Sept 7 th (Labor Day on Tuesday)	Introduction to biological molecules: Proteins, carbohydrates, and nucleic acids (pp. 39 – 46, end of chapter)	☐ Lab 1 Report Sheet☐ Lab 2 Report Sheet☐	
Chapter 2 – Three- Dimensional Geometry,	Week 4 Sept 14 th	Molecular geometry; VSEPR theory; dipoles and dipole moments; physical properties, functional groups, and intermolecular interactions (pp. 76 – 89, stop at Section 2.6)	☐ Test 1 — Chapter 1☐ Homework for Chapter 1☐	Lab 3 – Molecular Modeling – VSEPR Theory
intermolecular Interactions and Physical Properties	Week 5 Sept. 21st	Intermolecular interactions, and physical properties; solubility (pp. 89 - 106, up to 2.9)	☐ Lab 3 Report Sheet	
	Week 6 Sept. 28 th	Protic and aprotic solvents; soaps and detergents; lipids (pp. 106 – 120, end of chapter).		
Chapter 3 – Orbital Interactions I The Mystery of	Week 7 Oct 5 th	Atomic orbitals and wave nature of electrons; orbital interactions; molecular orbital theory; hybridized atomic orbitals (pp. 128 – 143, stop at 3.5)	☐ Test 2 — Chapter 2 ☐ Homework for Chapter 2	Lab 4 – Solubility of Flavor Compounds in Ethanol – Flavor Extracts
	Week 8 Oct 12 th	Valence bond theory; sigma and pi bonds; nonbonding orbitals; triple bonding; cis/ trans isomerism; hybridization and effective electronegativity (pp. 143 – 158, end of chapter)	□ Lab 4 Report Sheet	
Life's Origin Chapters 1 and 2	Oct. 19 th	Quarter 2 Starts – Nomenclature 1 and 2	☐ Response paper due for <i>Mystery</i>	of Life's Origin, Chapters 1 and 2