**Chemistry II – AP Fall 2016**

**Tentative Schedule: 8/29/2016 – 9/30/2016**

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| **Date** | | **Classwork** | **Homework** |
| 8/29 | M | **Welcome to AP Chemistry!**  Rules, Expectations & Procedures  Handout Periodic Table – make corrections  Notes – Classes of Inorganic Compounds  Pass out Complex Nomenclature Notes | Complete Inorg. Nomen. PS #1 & #2  Read Complex Nomenclature Notes  Enroll in WebAssign class  Begin Intro to WebAssign |
| 8/30 | T | Pass out Textbooks  Review of Inorganic Nomenclature  Discuss Lewis Acids & Bases – relate to complexes  Notes – Complexation Nomenclature  Group Work: Complex Nomen. PS #1 | Complex Nomen. PS #1 |
| 8/31 | W | Group Work: Nomen. PS #2 & #3  Pass out Study of Transition Metal Complex Lab  Pass out AP Lab Rubric / Discuss Lab Expectations  Lab Safety Contract | Complete Pre-Lab  Review for Quiz |
| 9/1 | H | **Quiz – Inorganic Nomenclature**  **Lab – Study of Transition Metal Complexes**  Complete Procedures A & B | **Intro to WebAssign Due (11:00pm)**  Start Lab Report |
| 9/2 | F | Complete Study of Transition Metal Complexes Lab  Procedures C, D, & E | Complete Complex Lab Report |
| 9/5 | M | **No School – Labor Day** |  |
|  | Enrichment – Being Wrong: Adventures in the Margin of Error | | |
| 9/6 | T | **Quiz – Complex Nomenclature**  Notes – Organic Nomenclature   * Representations of Hydrocarbons * Naming Alkanes (w/ alkyl substituted groups)   Group Work: Orgo. Nomen. Practice Quiz | Orgo. Nomen. Practice Quiz |
| 9/7 | W | Notes – Organic Nomenclature   * Alkenes, Alkynes, Aromatics * Discuss -ene and -yne combos * Functional Group Overview   Group Work: Orgo Nomen. PS | Group Work: Orgo Nomen. PS |
| 9/8 | H | Notes – Functional Groups   * ID of Functional Groups * Rules for different Functional Groups   Group Work: Orgo. Nomen. Problem Sets | Begin Reading Chapter 1 |
| 9/9 | F | Review Complex Nomenclature Quiz  Group Work: Complete all Orgo. Nomen. practice  Group Work: Organic Nomenclature Challenge Set  Discuss Flipped Classroom Philosophy / expectations  Pass out Intro Concepts Handout | **Video: Significant Figures**  **Video: Unit Conversions** |
| **Date** | | **Classwork** | **Homework** |
| 9/12 | M | **Quiz – ID of Organic Functional Groups**  Pass out AP Equation Sheet / Conversion Sheet / Basics Lab  Class Discussion: Accuracy vs. Precision  Lab – Mass Determinations  Group Work: Conversions Problem Set | Read Basic Lab Technique  **Video: Temperature & Density**  **Video: Chemistry Basics**  **Video: Statistical Analysis** |
|  | Enrichment – Review for Nomenclature Test | | |
| 9/13 | T | **Lab – Basic Lab Techniques**  Complete all Procedures | **Video: Mole Concept**  Begin Lab Report & Review for Quiz |
| 9/14 | W | **Quiz – Organic Nomenclature**  Review of Molarity, Dilution, %Comp  Lab – Making Stock Solutions  Group Work: Introductory Concepts Worksheet | **Video: Emp. & Molecular Formulas** |
| 9/15 | H | **Lab – Formula of a Hydrate** | Review for Nomenclature Test |
| 9/16 | F | **Test – Nomenclature** | **Video: Stoichiometry**  **WebAssign: Intro Conc. Part I (sun)** |
| 9/19 | M | **Quiz –** Sig Figs / Sci. Conv. / Density  Group Work: Stoichiometry Problem Sets | Read Experiment 11 – Choice I |
|  | Enrichment – Concentration of Ions | | |
| 9/20 | T | **Lab – Experiment 11: Choice I**  Pass out Stoichiometry of a Target Product | Complete Lab Report  **Webassign: Intro Concepts Part II** |
| 9/21 | W | **Quiz – Mole Concept & Formulas**  Lab – Stoichiometry of a Target Product  Pass out Atomic Theory Notes | **Video: Develop. Modern Atomic Theory** |
| 9/22 | H | **Quiz – Stoichiometry**  Group Work: Atomic Structure Practice & Atomic Theory Worksheet | **Video: AAM & Mass Spec.** |
| 9/23 | F | Class Discussion: Interpreting Mass Spectra  Group Work: Mass Spec Problem Set  Review Mole Concept & Stoich. Quizzes | Review for Test |
| 9/26 | M | **Test – Introductory Concepts Part I**  Sig Figs / Conv. / Density / Elements of Note / Statistics | Review for Test |
|  | Enrichment – David Foster Wallace: This is Water | | |
| 9/27 | T | **Test – Introductory Concepts Part II**  Mole Concept / Formulas / Stoichiometry | **Video: Nuc. Reactions, Half-Life & Stability** |
| 9/28 | W | Group Work: Nuclear Rxns PS & Half-Life PS #1 & #2  Discuss criteria for stability | **Video: Mass Defect** |
| 9/29 | H | Group Work: Mass-Energy Problem Set  Discuss Unit 2 Paper | **Video: Apps of Nuc. Chem.** |
| 9/30 | F | Speaker – Nathan Huffman, Nuclear Engineer @ Duke Energy | **WebAssign: Atomic Theory Reading**  **(sun)** |