**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 & ProceduresHandout Periodic Table – make correctionsNotes – Classes of Inorganic CompoundsPass out Complex Nomenclature Notes | Complete Inorg. Nomen. PS #1 & #2Read Complex Nomenclature NotesEnroll in WebAssign classBegin Intro to WebAssign |
| 8/30 | T | Pass out TextbooksReview of Inorganic NomenclatureDiscuss Lewis Acids & Bases – relate to complexesNotes – Complexation NomenclatureGroup Work: Complex Nomen. PS #1 | Complex Nomen. PS #1 |
| 8/31 | W | Group Work: Nomen. PS #2 & #3Pass out Study of Transition Metal Complex LabPass out AP Lab Rubric / Discuss Lab ExpectationsLab Safety Contract | Complete Pre-LabReview 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 LabProcedures 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 QuizGroup Work: Complete all Orgo. Nomen. practiceGroup Work: Organic Nomenclature Challenge SetDiscuss Flipped Classroom Philosophy / expectationsPass 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 LabClass Discussion: Accuracy vs. PrecisionLab – Mass DeterminationsGroup 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, %CompLab – Making Stock SolutionsGroup 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. / DensityGroup 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 ProductPass 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 SpectraGroup Work: Mass Spec Problem SetReview 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 & #2Discuss criteria for stability | **Video: Mass Defect** |
| 9/29 | H | Group Work: Mass-Energy Problem SetDiscuss Unit 2 Paper | **Video: Apps of Nuc. Chem.** |
| 9/30 | F | Speaker – Nathan Huffman, Nuclear Engineer @ Duke Energy | **WebAssign: Atomic Theory Reading****(sun)** |