**Chemistry II – AP Fall 2016**

**Tentative Schedule: 10/3/2016 - 11/11/2016**

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| **Date** | | **Classwork** | **Homework** |
| 10/3 | M | **No School – Rosh Hashanah** | Video: 4.1 Introduction to Quantum Theory  WebAssign: At. Thry/Nuc. Chem |
| 10/4 | T | **Quiz – Atomic Theory**  Review Introductory Concepts Tests  Gizmo: Photoelectric Effect & Assessment  Group Work: EM Spectrum PS | Video: 4.2 Quantum Mechanics |
| 10/5 | W | **Quiz – Nuclear Chemistry**  Review of Orbital Diagrams / discuss sublevel stability  Class discussion: contributions of de Broglie & Heisenburg  Group Work: Quantum Mechanics Problem Set | Video: 4.3 Electron Configurations |
| 10/6 | H | Analyze PES diagrams  Discuss: El. Config. Irregularities  Review quizzes | Prepare for Test |
| 10/7 | F | **Test – Atomic Theory & Nuclear Chemistry**  Pass out Flame Test Lab | Video: 4.4 Development of the Modern Periodic Table |
| 10/10 | M | **PACT Testing**  Grade Atomic Thry/Nuc. Chem Free Response?  Quantum Theory / Per. Props Work day | Read Experiment 12 in Hall  Complete Exp. 12 Pre-lab |
| 10/11 | T | **Lab – Experiment 12: Representative Elements** | Video: 4.5 Secondary Periodic Properties |
| 10/12 | W | **CMS Early Release Day**  Complete Experiment 12 | Video: 5.1 Valence Bond Theory  Begin Experiment 12 report  WebAssign: Quant. Theory |
| 10/13 | H | **Quiz – Electron Config. / Quantum No.**  Group Work: Bonding Problem Set | Video: 5.2 VSEPR Theory & Molecular Polarity  WebAssign: Per. Properties  Complete Pre-lab |
| 10/14 | F | **Quiz – Periodic Properties**  Lab – Experiment 19 Molecular Properties | Video: 5.3 Intermolecular Forces |
| 10/17 | M | Discuss: IMF Differentiation  Phet – Molecular Geometry  Review Quizzes | Video: 5.4 Advanced Bonding Theory  Video: Predicting Products |
| 10/18 | T | Group Work: Adv. Bond Theory PS  Discuss: Diff. between VB/VSEPR/MO/CF Theories  Pass out Fundamental Chemical Reactions Lab / I-H PS #2 | Video: Reaction Prediction |
| 10/19 | W | **PSAT Testing**  Review: I-H Rxn Pred. PS #2  Discuss rules for SR & DR / exceptions | Complete Rxn. Pred PS #2 (I-H)  Read Basic Rxns Lab |
| **Date** | | **Classwork** | **Homework** |
| 10/20 | H | First Period Midterm Exam  Lab – Fundamental Chemical Reactions  *Turn-in Exp. 12 Major Lab* | Video: Complex and Redox Reactions |
| 10/21 | F | **Quiz – Bonding**  Second Period Midterm Exam  Pass out Survey of Redox Reactions Lab  Survey of Redox Rxns Pre-lab: Predict products of rxns  Review for Quantum Theory / Per. Props Test | Read over Redox Lab  WebAssign: Chemical Bonding |
| 10/24 | M | **Lab – Survey of Redox Reactions** | Prepare for Test |
| 10/25 | T | **Test – Quantum Theory & Periodic Properties** | Review for Quiz  WebAssign: Molecular Geometry |
| 10/26 | W | **Quiz – Molecular Geometry**  Third Period Midterm Exam  Grade Quantum Theory / Per. Props Free Response  Discuss Spectrochemical Series Inquiry Lab |  |
| 10/27 | H | Fourth Period Midterm Exam  **Lab – Spectrochemical Series** | Video: Intro to Gas Laws |
| 10/28 | F | Last Day of First Marking Period  **Quiz – IMF**  Gizmo: Boyles’ and Charles’ Law  Group Work: Gas Laws Problem Set |  |
| 10/31 | M | **No School – Teacher Workday** | Read Exp. 14 Choice III in Hill |
| 11/1 | T | Lab – Experiment 14 Choice III  Pass out Molar Volume Lab | Prepare for Test |
| 11/2 | W | **Test – Chemical Bonding / Molecular Geo. / IMF** | Molar Volume Pre-lab |
| 11/3 | H | Lab – Molar Volume of a Gas  Complete lab calculations | Video: Kinetic Molecular Theory |
| 11/4 | F | Grade Bonding Free Response  Discuss deviations from ideality / Review Molar Vol. Calcs  Discuss van der Waals equation Inquiry Lab | Prepare for Inquiry Lab |
| 11/7 | M | **Lab – van der Waals Inquiry Lab**  Complete calculations  Pass out Melting Point Lab | WebAssign: Gas Laws |
| 11/8 | T | **No School – Teacher Workday** | Video: Phase Diagrams  Melting Point Pre-lab |
| 11/9 | W | **Quiz – Gas Laws Problems**  Lab – Melting Point of a Substance | Video: Properties of Solids |
| 11/10 | H | Group Work: Liquids/Solids Review | Video: Crystal Types |
| 11/11 | F | **No School – Veteran’s Day** | WebAssign: States of Matter (Sun.) |