**Chemistry II – AP Fall 2016**

**Tentative Schedule: 11/14/2016 – 1/27/2017**

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| **Date** | | **Classwork** | **Homework** |
| 11/14 | M | **Quiz – Gas Laws Theory**  Solid / Crystal Types Problem Set | Video: Properties of Solids |
| 11/15 | T | Review Gas Laws quizzes  Group Work: Solid Types / Born-Haber Problem Set | Complete Liquids/Solids Review Sheet |
| 11/16 | W | Group work: States of Matter Practice Test  Review AP States Practice Free Response | Prepare for Test |
| 11/17 | H | **Test – Gas Laws** | WebAssign: States of Matter  Video: Introduction to Energy |
| 11/18 | F | **Quiz – States of Matter**  Discuss energy and thermodynamic system types  Group Work: Introduction to Energy | Video: Enthalpy |
| 11/21 | M | Group Work: Hess’ Law Problem Set  Lab – Heats of Reaction MicroLab  Discuss Inquiry Lab | Prepare for Test |
| 11/22 | T | **Test – States of Matter** |  |
| 11/23 | W | **No School – Thanksgiving** | Prepare for Inquiry Lab |
| 11/28 | M | **Lab – Specific Heat of a Metal** | Video: Entropy |
| 11/29 | T | Class Discussion: Conditions for Spontaneity  Group Work: Thermo PS #1 | Video: Gibbs Free Energy |
| 11/30 | W | Class discussion: Free Energy at nonstandard conditions  Group Work: Gibbs Free Energy Problem Set | Start Thermodynamics Practice Test |
| 12/1 | H | **Lab – Thermodynamics Comprehensive**  Complete calculations | WebAssign: Thermodynamics  Video: Intro to States of Matter |
| 12/2 | F | **Quiz – Thermodynamics**  Solubility Curve Worksheet  Class Discussion – Electrolytes | Video: Concentration Units |
| 12/5 | M | Review Thermo quiz  Group Work: Concentration Units worksheet | Video: Colligative Properties |
| 12/6 | T | Lab – Colligative Properties (Method I or II) | Prepare for Test |
| 12/7 | W | **Test – Thermodynamics** | WebAssign: Solutions |
| 12/8 | H | **Quiz – Solution Theory**  Lab – Beer’s Law Inquiry Lab | Video: Spectrophotometry |
| 12/9 | F | **Quiz – Colligative Properties**  Group Work: Solutions Practice Test |  |
| **Date** | | **Classwork** | **Homework** |
| 12/12 | M | Qualitative Analysis: Lab Overview & Set-Up |  |
| 12/13 | T | Qualitative Analysis: Day 1 |  |
| 12/14 | W | Qualitative Analysis: Day 2 |  |
| 12/15 | H | Qualitative Analysis: Day 3 |  |
| 12/16 | F | Qualitative Analysis: Day 4 |  |
| 12/19 | M | Qualitative Analysis: Day 5 |  |
| 12/20 | T | Qualitative Analysis: Day 6 |  |
| 12/21 | W | Clean-up lab & Classroom |  |
| **Winter Break!** | | **Winter Break!** | **Winter Break!** |
| 1/4/17 | W | Review for Solutions Test | Prepare for Test |
| 1/5/17 | H | **Test – Solutions** | Video: Potential Energy Diagrams |
| 1/6/17 | F | Class discussion: PheT Reaction Rates  Potential Energy Diagram Worksheet | Video: Reaction Mechanisms |
| 1/9 | M | Discuss: Determining Rate Law from Data  Group Work: Kinetics In-Class Worksheet  Pass out Iodine Clock Reaction Lab | Kinetics Worksheet #2 |
| 1/10 | T | Lab – Iodine Clock Reaction | WebAssign: Kinetics |
| 1/11 | W | **Quiz – Kinetics**  ACS Review Test #1 | Midterm Review Guide |
| 1/12 | H | ACS Review Test #2 |  |
| 1/13 | F | **CMS Early Release Day**  ACS Review Test #3 |  |
| 1/16 | M | **No School – Martin Luther “The King” Holiday** |  |
| 1/17 | T | First Period Exam |  |
| 1/18 | W | Second Period Exam | Prepare for Midterm Exam |
| 1/19 | H | **Third Period Midterm Exam** |  |
| 1/20 | F | Fourth Period Exam |  |
| 1/23 | M | **End of Second Quarter**  Make-up Exams / Review for Kinetics Test |  |
| 1/24 | T | **No School – Teacher Workday** | Prepare for Test |
| 1/25 | W | **Test – Kinetics** | Video: The Law of Mass Action |
| 1/26 | H | Class Discussion: Deriving the Equilibrium Expression  Group Work: Equilibrium PS #1 | Video: ICE Tables |
| 1/27 | F | Discuss: quadratic equation with ICE tables  Group Work: Equilibrium PS #2 / Pass out Lab | Video: LeChatelier’s Principle |