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|  | AP Chemistry | Honors Chemistry |
| Monday | 1. Hand in HW: Chemical reaction review questions (FR III) 2. Review HW –problems # 4-6 3. Continue notes and discussion - Thermodynamics I slides # 19-31    1. HW –complete problems # 8-12 | Finish Problems sheet for Chapter 9 Exam   1. Start Notes 10.1 – The Mole    1. Demo: Sample Moles of Various elements.    2. Mole in the hole demo.    3. Handout mole map   HW: Read Section 10. 1 & Complete Worksheet 10.1 |
| Tuesday | Quiz: AP Thermo I Problem  Review HW Problems #8-12 from Thermo I   * AP chemsolutions Unit IV – Thermodynamics * Handout noteslides and worksheets form Thermodynamics II.  1. Thermodynamics II    1. Calorimetry   Complete slides 1-32 and HW Problems 1-4 | 1. Finish Notes 10.1    1. Demo: Sample Moles of Various elements. 2. Lab: Complete Measuring mass: A Means of Counting SSL 3. HW: Finish Lab Calculations & Worksheet 10.1 |
| Wednesday | Review HW Problems #1-4 from Thermo II   * AP chemsolutions Unit IV – Thermodynamics  1. Thermodynamics II 2. Hess’s Law   Complete slides 33-40 and HW Problems 5-8 & Pre-lab questions for **Lab: Energy in Chemical Reactions - Pasco #11** | 1. Grade: Lab Calculations & Worksheet 10.1 2. Complete Lab : Now it is your turn #1 -# of atoms in CaCO3 3. Hand out Mole maps    1. Explain how to use them.   HW: read 10.2 |
| Thursday | Review HW Problems #5-8 from Thermo II  **Lab: Energy in Chemical Reactions - Pasco #11**  Module 1 – Dissolution of NH4NO3. | 1. Notes & Discussion 10.2   HW -section review & Practice Problems  Complete additional practice problems 10.2 |
| Friday | **Lab: Energy in Chemical Reactions - Pasco #11**  Module 2 – Limiting Reagants.   * AP chemsolutions Unit IV – Thermodynamics  1. Thermodynamics II 2. Enthalpy of Formation   Complete slides 46-60 and HW 9-19 | Complete additional Practice Problems 10.2  Quiz 10.2 will be Monday, Jan 30, 2017 |
|  | * What are we learning? Thermochemistry * Why are we learning this? One of the big 5 topics in AP Chemistry. * How will we know when we have learned this? Successful completion of HW, Labs and Exams over this Unit. | What are we learning? Moles  Why are we learning this? Basis of all chemistry reaction calculations  How will we know when we have learned this? Successful quiz results on Friday. |